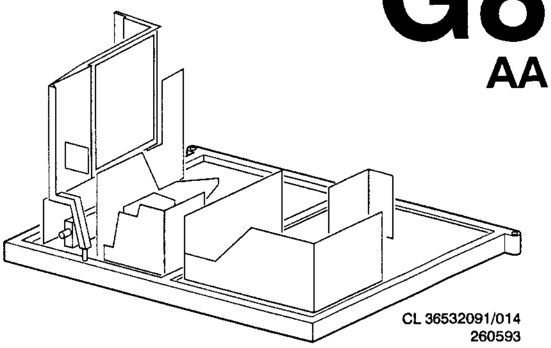
Colour television

Chassis G8 AA

Service
Service
Service



CL 36532091/014
260593

Service Manual

Table of contents

Page

1. Technical data 2
2. Connection facilities; Local keyboard; LED indications 2
   Location of Printed Circuit Boards 3
3. Warnings and remarks 3
4. Mechanical instructions 3
5. Detailed blockdiagram for fault diagnosis 4
6. Electrical diagrams and print lay-outs
   Diagram A: Power supply and synchronisation 6
   Lay-out: Large Signal Panel 7
   Circuit descr.: Power supply 7
   Lay-out: Small Signal Panel 8
   Diagram B: Tuner / IF 9
   Diagram C: Chroma 10
   Diagram D: CRT 11
   Lay-out: CRT panel 11
   Diagram E: Controls 12
   Diagram F: Sound / Headphone connection 13
   Lay-out: Headphone panel 13
   Diagram G1: Interface panel (Video part) 14
   Lay-out: Interface panel 15
   Lay-outs: LED panel; Local keyboard panel; Side Front Connections panel; Side Rear Connections panel 16
   Diagram G2: Interface panel (Audio part) 17
   Diagram H: Multi mono sound 18
   Diagram L: BTSC Stereo sound 19
   Lay-outs: Multi mono p.; Nicam Stereo p.: BTSC Stereo p. 20
   Diagram I: Nicam Stereo sound 21
   Diagram J: Teletext panel 22
   Diagram K: SCAVEM Amplifier 22
   Lay-outs: Teletext panel; SCAVEM Amplifier panel 22
7. Electrical adjustments 23
8. List of error messages; Service Default Mode; Service Mode 24
9. Operating instructions 25
10. Spare parts list 27

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PHILIPS

PCS 43 394

1. Technical data

Mains voltage	: 160-276 V, 50/60 Hz ± 5 %
	: 90-276 V, 50/60 Hz ± 5%
Power consumption at 230 V	: 25" 108W; 29" 128W
Aerial input impedance	: 75 Ω - coax
Minimum aerial input VHF	: 30 µV
Minimum aerial input UHF	: 40 µV
Maximum aerial input	: 180mV
Pull-in range colour sync	: ± 300Hz
Pull-in range horizontal sync	: ± 600Hz
Pull-in range vertical sync	: ± 5Hz
Picture tube range	: 25" (59cm) and 29" (68cm)

TV systems (stroke no depended)	: PAL B/G/D/K/K1/I/M/N and PAL 60
	: SECAM B/G/D/K/K1
	: NTSC M (3.58) and NTSC 4.43
Sound systems	: stereo NICAM B/G or I; 2CS
	: mono 4.5/5.5/6.0/65 MHz
Sound output	: 2x 12W; 2x 3W surround sound

2. Connection facilities;

location of controls, LED's and PCB's:

Front connections:
(29" only)

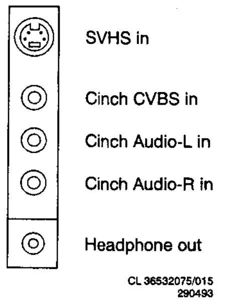

SVHS in
Cinch CVBS in
Cinch Audio-L in
Cinch Audio-R in
Headphone out
CL 36532075/015
290493

Fig. 2.1

Rear connections:

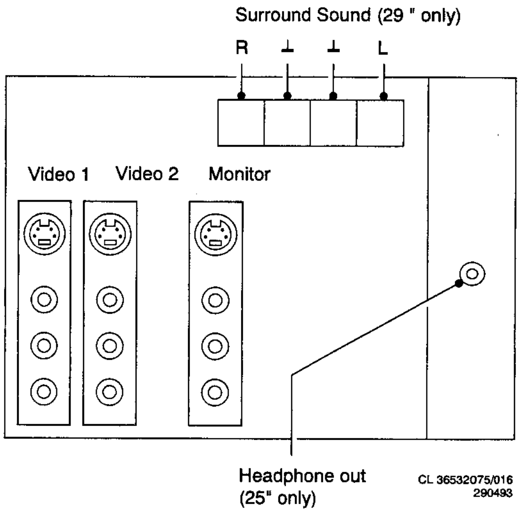

Surround Sound (29 " only)
R ⊥ ⊥ L
Video 1
Video 2
Monitor
Headphone out
(25" only)
CL 36532075/016
290493

Fig. 2.2

Input and output levels:

◎	CINCH	Audio	→◎	(0,2V$_{eff}$ - 2 V$_{eff}$ ≥ 10kΩ)
◎	CINCH	CVBS	→◎	(1V$_{pp}$/75Ω)
◎	CINCH	Audio	◎→	(0,2V$_{eff}$ - 2 V$_{eff}$ ≥ 10kΩ)
◎	CINCH	CVBS	◎→	(1V$_{pp}$/75Ω)

Head phone:

◉ 3.5mm 🔈/🎧 8 - 600Ω/15mW

SVHS in			SVHS out		
1 - ⊥			1 - ⊥		
2 - ⊥			2 - ⊥		
3 - Y	→◎	(1V$_{pp}$/75Ω)	3 - Y	◎→	(1V$_{pp}$/75Ω)
4 - C	→◎	(1V$_{pp}$/75Ω)	4 - C	◎→	(1V$_{pp}$/75Ω)

Note: in the diagrams is	Video 1	= Ext-1
	Video 2	= Ext-2
	Side-Front input	= Ext-3

Local keyboard; on top of the set.

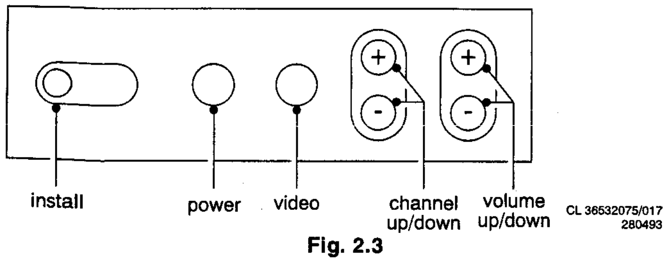
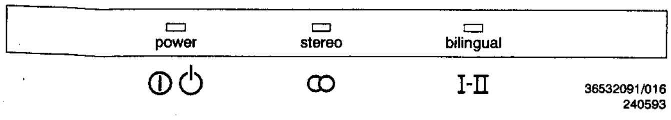
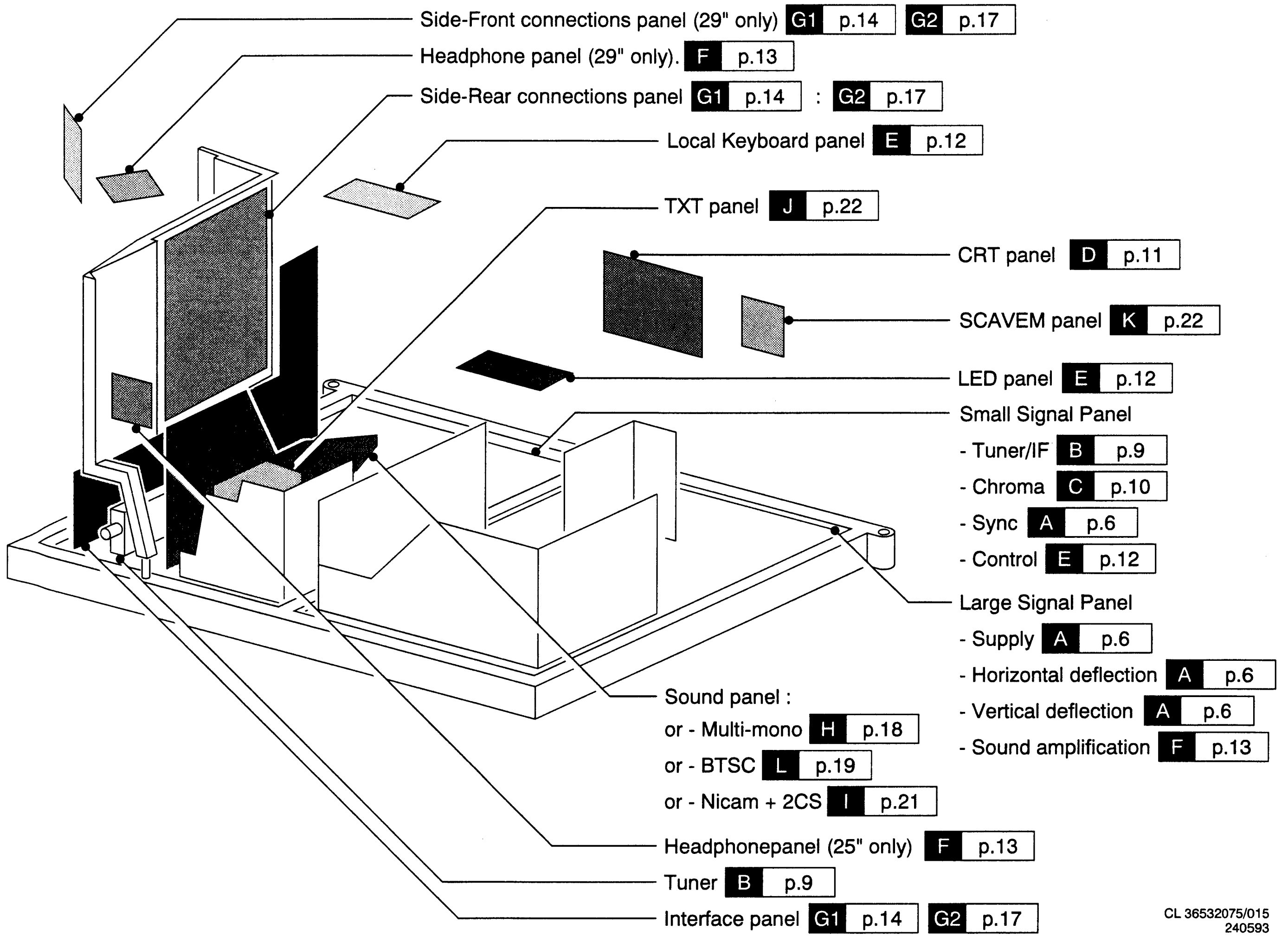

+
-
+
-
install
power
video
channel up/down
volume up/down
CL 36532075/017
280493

Fig. 2.3

LED indications


power
stereo
bilingual
I-II
36532091/016
240593

3. Warnings and notes


Side-Front connections panel (29" only) G1 p.14 G2 p.17
Headphone panel (29" only). F p.13
Side-Rear connections panel G1 p.14 : G2 p.17
Local Keyboard panel E p.12
TXT panel J p.22
CRT panel D p.11
SCAVEM panel K p.22
LED panel E p.12
Small Signal Panel
- Tuner/IF B p.9
- Chroma C p.10
- Sync A p.6
- Control E p.12
Large Signal Panel
- Supply A p.6
- Horizontal deflection A p.6
- Vertical deflection A p.6
- Sound amplification F p.13
Sound panel :
or - Multi-mono H p.18
or - BTSC L p.19
or - Nicam + 2CS I p.21
Headphonepanel (25" only) F p.13
Tuner B p.9
Interface panel G1 p.14 G2 p.17
CL 36532075/015
240593

Warnings

1. A set to be repaired should always be connected to the mains via a suitable isolating transformer.

2. Safety regulations demand that the set be restored to its original condition and that the components identical to the original types be used. Safety components are marked by the symbol . ⚠

3. To prevent damage to IC's and transistors any flash-over of the EHT should be avoided. To prevent damage to the picture tube the method, indicated in Fig. 3.1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is OV (after approx 30s).

4. **ESD** ⚠

All IC's and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.

5. The deflection and multipole units have been adjusted in an optimum way in the factory. Adjustment of these units during repair is thus not recommended.

6. Proceed with care when testing the EHT section and the picture tube.

7. Never replace any modules or any other parts while the set is switched on.

8. Wear safety goggles during replacement of the picture tube

9. Use plastic instead of metal alignment tools. This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.

10. Upon a repair of a transistor or IC assembly i.e. a transistor or IC with heatsink and spring remounting should be carried out in the following order:
- Mount transistor or IC on heatsink with spring.
- Mount assembly and resolder the joints at last.

Notes

1. The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** (see chapter 8) with a colour bar signal and stereo sound (L: 3kHz, R: 1KHz unless stated otherwise) and picture carrier at 475.25 MHz.

4. Mechanical instructions

3. The DC voltages and oscillograms are, where necessary, measured with (╥) and without (╳) aerial signal.
The relevant voltages and oscillograms in the power supply section have been measured for both normal operation (⦶) and in the stand-by mode (⏻). These values are indicated by means of the appropriate symbols.

4. Connectors used for the modules (board to board) are gold-plated and must be replaced by the same type only.

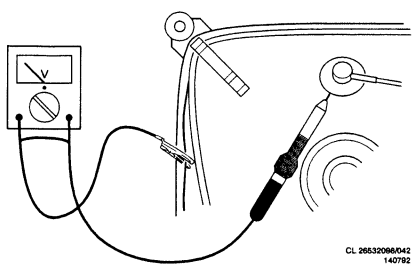

CL 26532098/042
140792

Fig 3.1

Mechanical instructions

1. Removing rear-cover (fig 4.1)

- Remove Side-Front connections fixation screws A (if applicable).
- -Remove Side-Rear connections fixation screws B .
- Remove the rear-cover screws C.

2a. Service position **A** (fig. 4.2 A)

Measuring at testpoints at the topside of the printed circuit boards:
Lift the total chassis frame including large signal panel and small signal panel and pull it gently backwards.

2b. Service position **B** (fig. 4.2 B)

Measuring and/or replacing components:
Lift the total chassis frame and pull gently backwards. Insert one (e.g. left side) or two long screwdrivers **S** in the provided holes in the frame. Turn the frame about 90^0 from the rear to the right. Turnover the frame from the right to the left so that it will rest on the screwdrivers.

Note The service switch **C** is to activate the Service Default Mode (SDM) and the Servie Mode (SM).

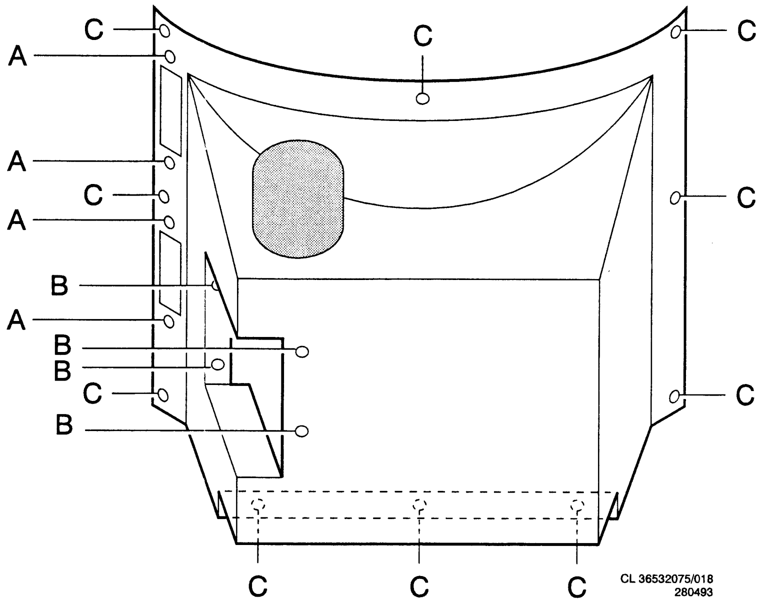

C
A
C
A
C
A
B
A
B
B
C
B
C
C
C
C
C
C
CL 36532075/018
280493

Fig 4.1

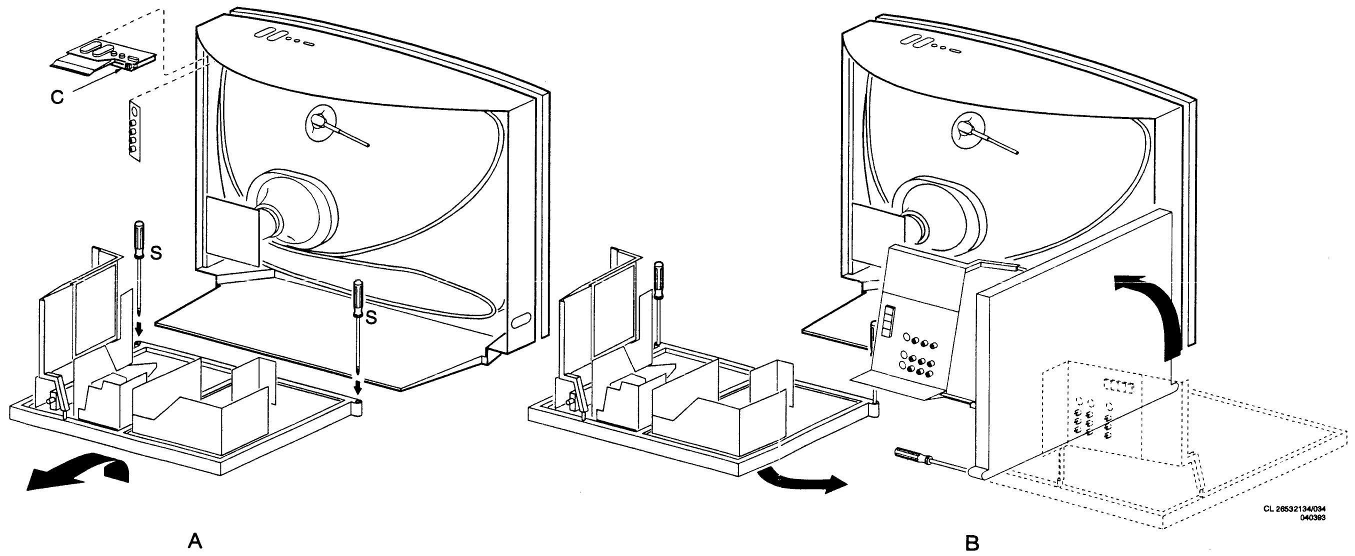
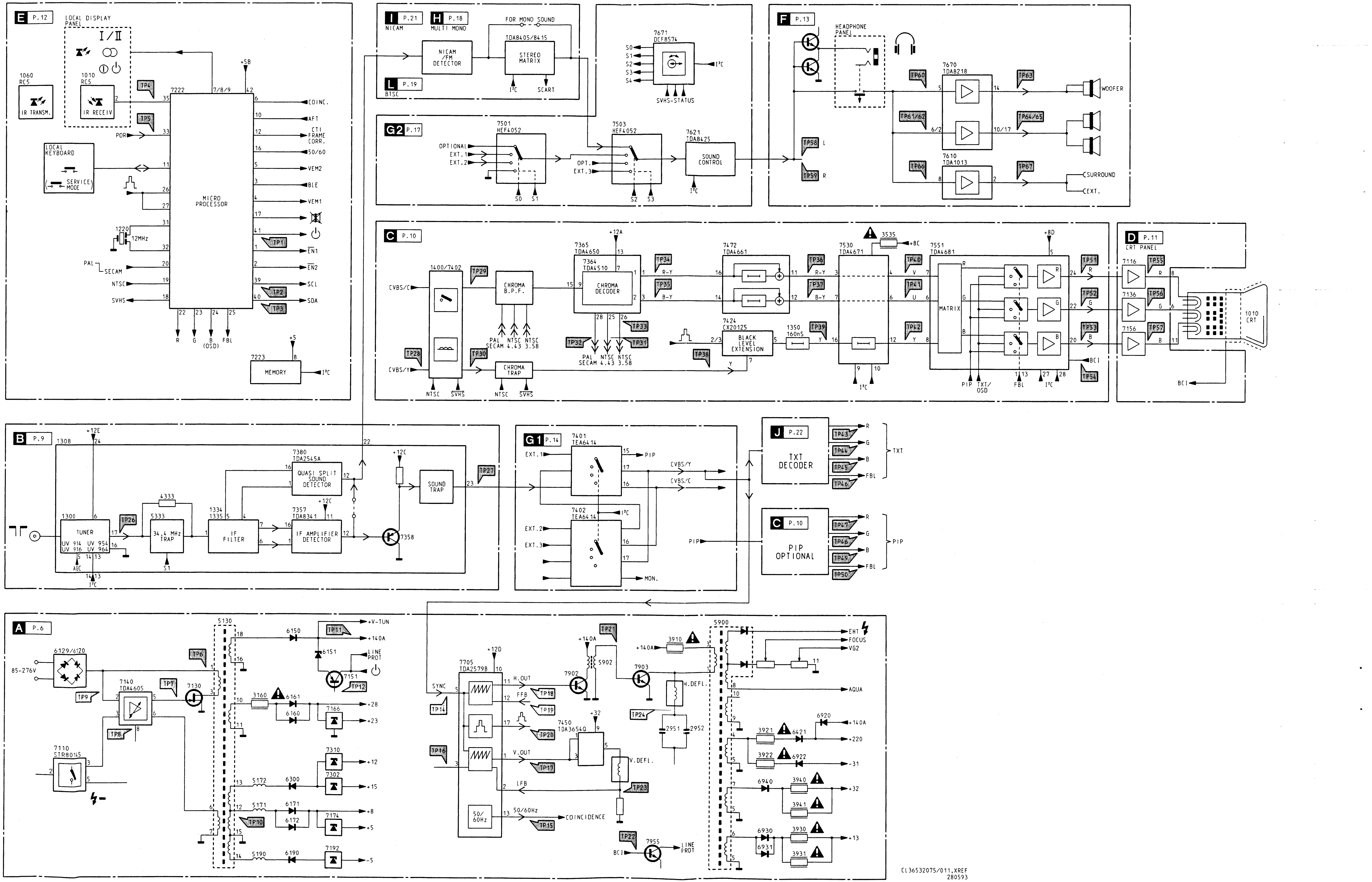

C
S
S
A
B
CL 26532134/034
040393

Fig 4.2

Blockdiagram


E P.12
LOCAL DISPLAY PANEL
I/II
1060 RC5
IR TRANSM.
1010 RC5
IR RECEIV
TP4
TP5
POR
LOCAL KEYBOARD
SERVICE MODE
1220 12MHz
PAL
SECAM
NTSC
SVHS
7222
7/8/9
+5B
MICRO PROCESSOR
COINC.
AFT
CTI FRAME CORR.
50/60
VEM2
BLE
VEM1
EN1
EN2
SCL
SDA
TP1
TP2
TP3
R G B (OSD) FBL
+5
7223
MEMORY
I²C
I P.21 NICAM
H P.18 MULTI MONO
L P.19 BTSC
FOR MONO SOUND
TDA8405/8415
NICAM /FM DETECTOR
STEREO MATRIX
SCART
7671 DCF8574
S0 S1 S2 S3 S4
SVHS-STATUS
G2 P.17
7501 HEF4052
OPTIONAL
EXT.1
EXT.2
7503 HEF4052
OPT.
EXT.3
7621 TDA8425
SOUND CONTROL
F P.13
HEADPHONE PANEL
7670 TDA8218
TP60 TP61/62 TP63 TP64/65 TP66 TP67
TP58 L
TP59 R
WOOFER
7610 TDA1013
SURROUND
EXT.
C P.10
1400/7402
CVBS/C
CVBS/Y
TP28 TP29 TP30
CHROMA B.P.F.
CHROMA TRAP
PAL SECAM 4.43 NTSC 4.43 NTSC 3.58
NTSC SVHS
+12A
7365 TDA4650
7364 TDA4510
CHROMA DECODER
TP31 TP32 TP33 TP34 TP35
R-Y B-Y
7472 TDA4661
TP36 TP37
7424 CX20125
BLACK LEVEL EXTENSION
TP38
1350 160nS
TP39
Y
3535
+8C
7530 TDA4671
TP40 TP41 TP42
V U Y
7551 TDA4681
+8D
MATRIX
TP51 TP52 TP53 TP54
BCI
PIP TXT/OSD FBL I²C
D P.11 CRT PANEL
7116 7136 7156
TP55 TP56 TP57
1010 CRT
B P.9
1308
+12E
7380 TDA2545A
QUASI SPLIT SOUND DETECTOR
+12C
1300 TUNER
UV 914 UV 954
UV 916 UV 964
AGC
TP26
4333
5333 34.4 MHz TRAP
1334 1335
IF FILTER
7357 TDA8341
IF AMPLIFIER DETECTOR
7358
SOUND TRAP
TP27
G1 P.14
7401 TEA6414
EXT.1
PIP
CVBS/Y
CVBS/C
7402 TEA6414
EXT.2
EXT.3
MON.
J P.22
TXT DECODER
TP43 TP44 TP45 TP46
R G B FBL TXT
C P.10
PIP OPTIONAL
TP47 TP48 TP49 TP50
R G B FBL PIP
A P.6
6129/6120
85-276V
TP6 TP7 TP8 TP9
7140 TDA4605
7130
7110 STR80145
5130
6150
TP11
+V-TUN
+140A
6151
LINE PROT
7151
TP12
3160
6161
6160
7166
+28
+23
5172
6300
7310
7302
+12
+15
5171
6171
6172
7174
+8
+5
TP10
5190
6190
7192
-5
SYNC
TP14
TP16
+12D
7705 TDA2579B
H.OUT
FFB
V.OUT
LFB
50/60Hz
COINCIDENCE
TP15 TP17 TP18 TP19 TP20
TP21
+140A
7902
5902
7903
3910
H.DEFL.
TP24
2951 2952
+32
7450 TDA3654Q
V.DEFL.
TP23
TP22
BCI
7955
LINE PROT
5900
EHT
FOCUS
VG2
AQUA
3921 6421
6920
+140A
+220
3922 6922
-31
6940
3940
3941
+32
6930
6931
3930
3931
+13

CL36532075/011.XREF
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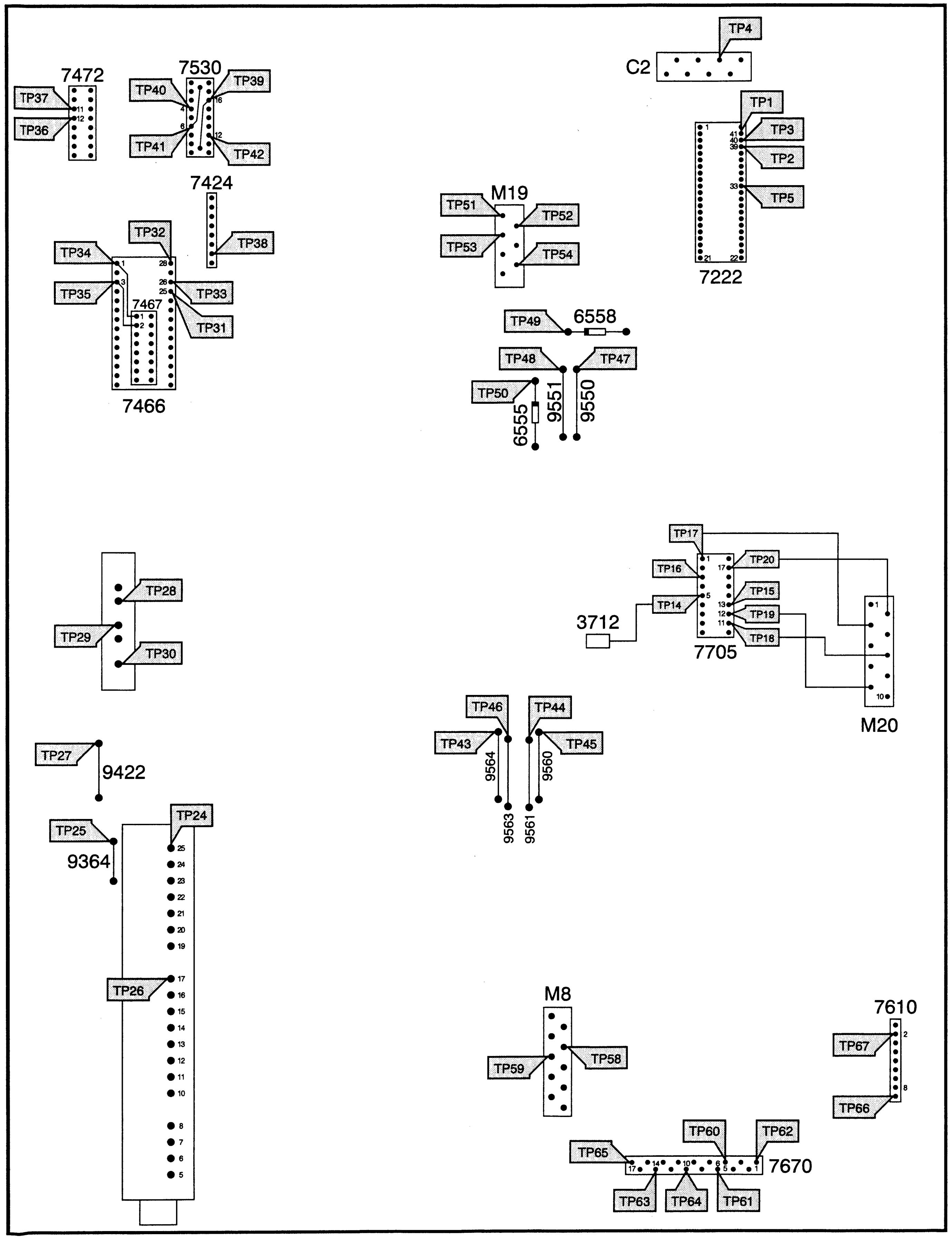
Small signal panel


7472
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TP36
7530
TP40
TP39
TP41
TP42
7424
TP38
TP32
TP34
TP35
TP33
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7467
7466
C2
TP4
TP1
TP3
TP2
TP5
7222
M19
TP51
TP52
TP53
TP54
TP49
6558
TP48
TP47
TP50
6555
9551
9550
TP17
TP16
TP20
TP15
TP14
TP19
TP18
3712
7705
M20
TP28
TP29
TP30
TP46
TP44
TP43
TP45
9564
9560
9563
9561
TP27
9422
TP25
9364
TP24
TP26
M8
TP59
TP58
7610
TP67
TP66
TP60
TP62
TP65
7670
TP63
TP64
TP61

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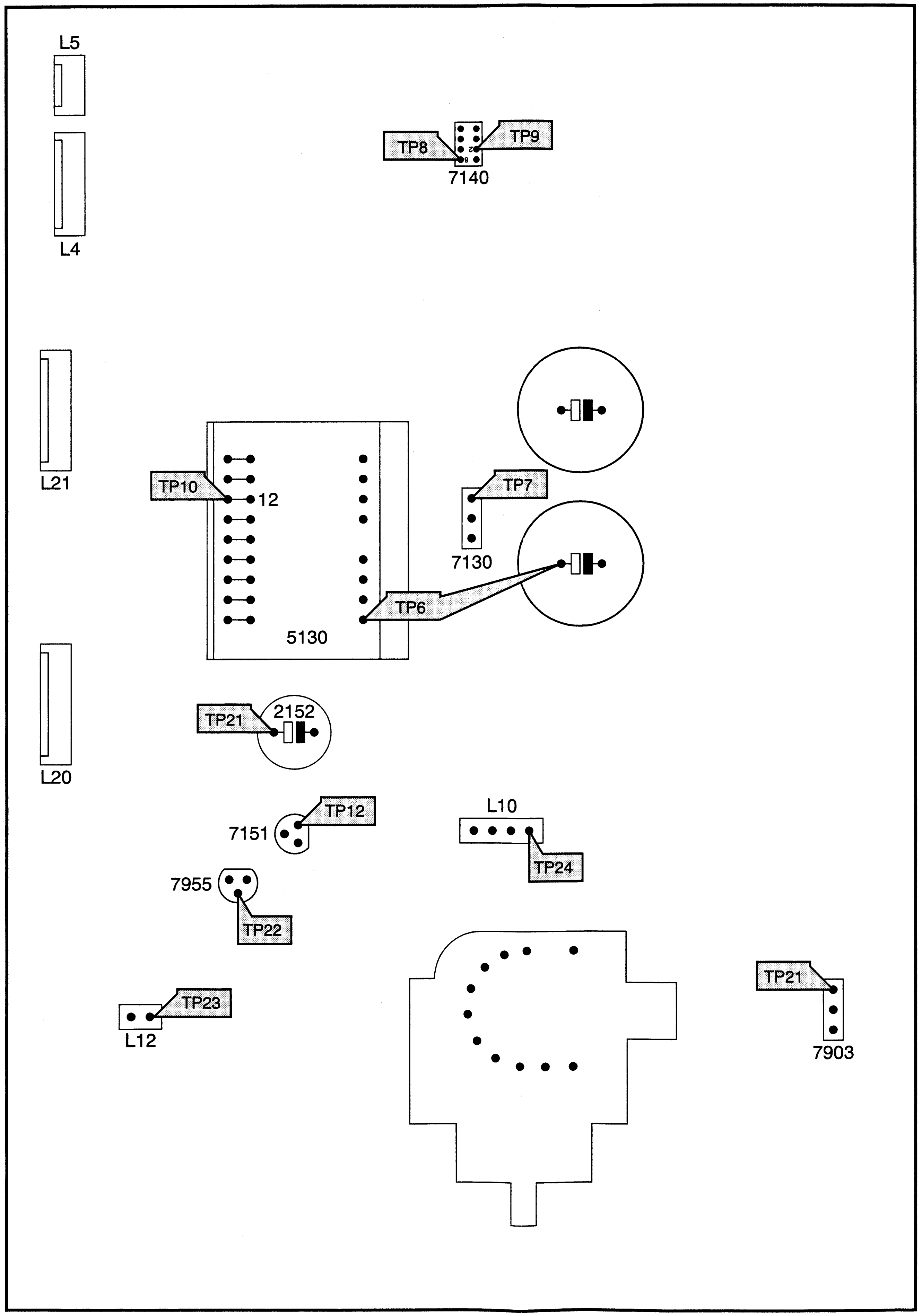
260593

Large signal panel


L5
L4
TP8
TP9
7140
L21
TP10
12
TP7
7130
TP6
5130
L20
TP21
2152
7151
TP12
L10
TP24
7955
TP22
TP23
L12
TP21
7903

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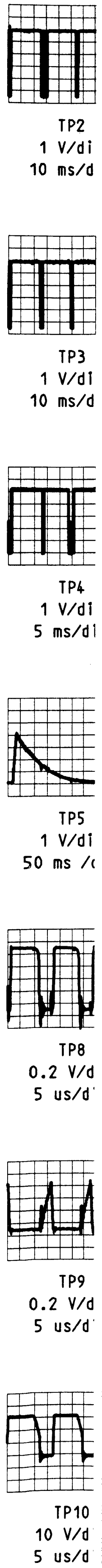
Oscil


TP2
1 V/di
10 ms/d

TP3
1 V/di
10 ms/d

TP4
1 V/di
5 ms/di

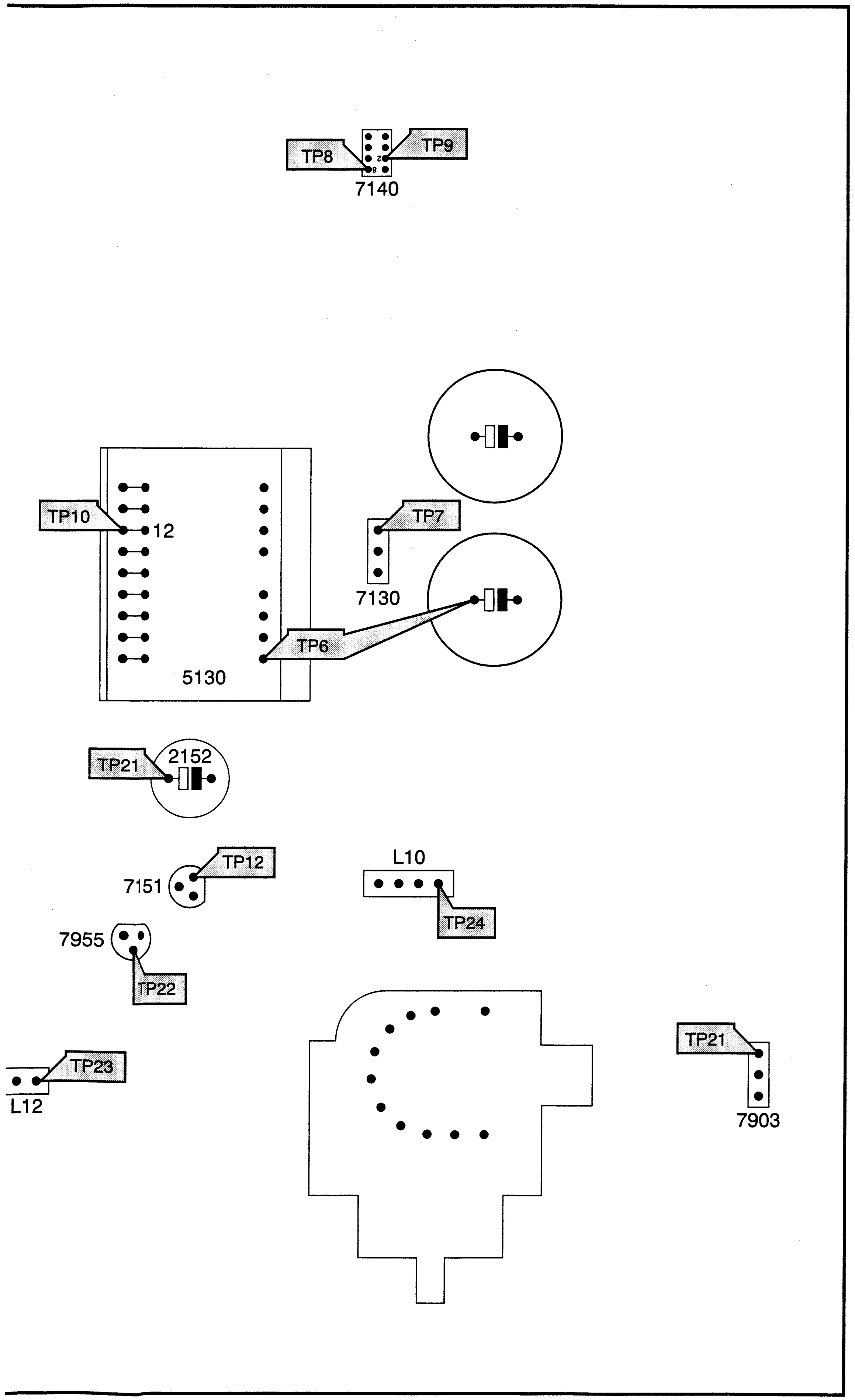
TP5
1 V/di
50 ms /

TP8
0.2 V/d
5 us/d

TP9
0.2 V/d
5 us/d

TP10
10 V/d
5 us/d

Large signal panel



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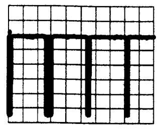
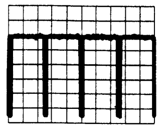
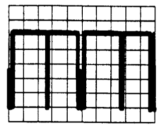
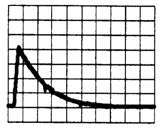
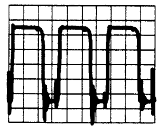
Oscillograms


TP2
1 V/div
10 ms/div


TP3
1 V/div
10 ms/div


TP4
1 V/div
5 ms/div


TP5
1 V/div
50 ms /div


TP8
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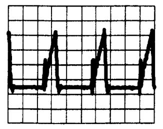
5 us/div


TP9
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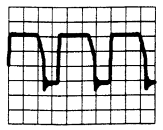
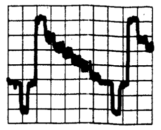
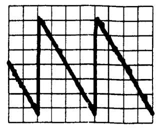

TP10
10 V/div
5 us/div


TP14
0.2 V/div
10 us/div


TP16
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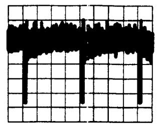
5 ms/div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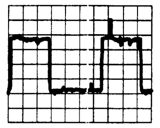
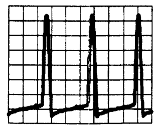
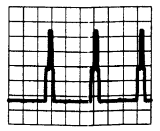
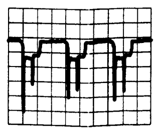
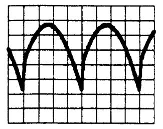
0.1 V/div
5 ms/div

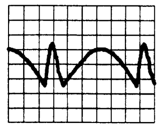

TP18
0.2 V/div
10 us/div

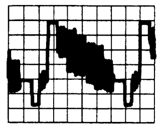

TP19
0.1 V/div
20 us/div

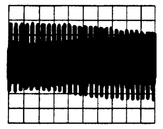

TP20
2 V/div
20 us/div

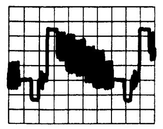

TP21
2 V/div
20 us/div

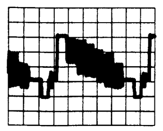

TP23
50 V/div
10 us/div

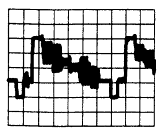

TP24
50 V/div
10 us/div

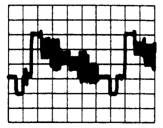

TP25
0.5 V/div
10 us/div

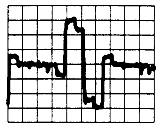

TP26
20 mV/div
0.5 us/div

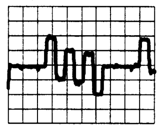

TP27
20 mV/div
10 us/div

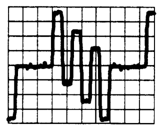

TP28
0.5 mV/div
10 us/div

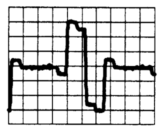

TP29
0.5 V/div
10 us/div

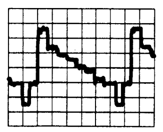

TP30
0.5 V/div
10 us/div

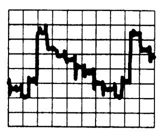

TP34
0.1 V/div
10 us/div

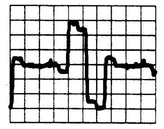

TP35
0.2 V/div
10 us/div

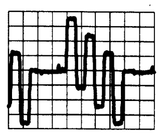

TP36
0.2 V/div
10 us/div

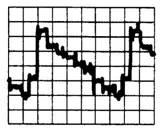

TP37
0.2 V/div
10 us/div

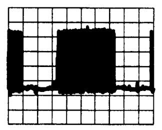

TP38
0.2 V/div
10 us/div

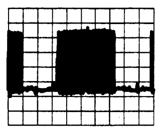

TP39
0.1 V/div
10 us/div

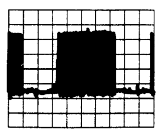

TP40
20 mV/div
10 us/div

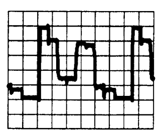

TP41
0.2 V/div
10 us/div

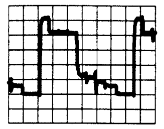

TP42
0.1 V/div
10 us/div

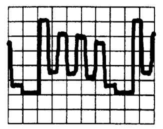

TP47
0.1 V/div
10 us/div

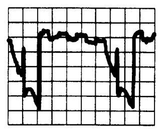

TP48
0.1 V/div
10 us/div

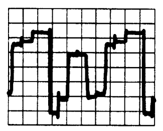

TP49
0.1 V/div
10 us/div

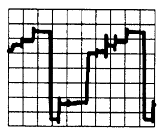

TP51
0.5 V/div
10 us/div

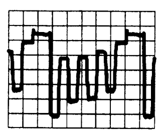

TP52
0.5 V/div
10 us/div

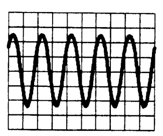

TP53
0.5 V/div
10 us/div

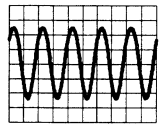

TP54
0.1 V/div
10 us/div

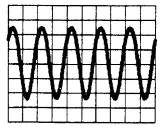

TP55
20 V/DIV
10 US/DIV

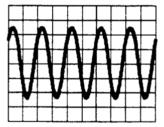

TP56
20 V/div
10 us/div

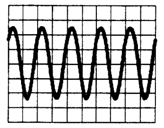

TP57
20 V/div
10 us/div

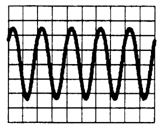

TP58
10 V/DIV
0.5 ms/div

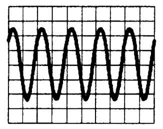

TP59
10 V/DIV
0.5 ms/div

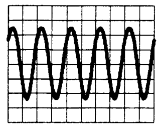

TP60
10 V/DIV
0.5 ms/div


TP61
10 V/DIV
0.5 ms/div

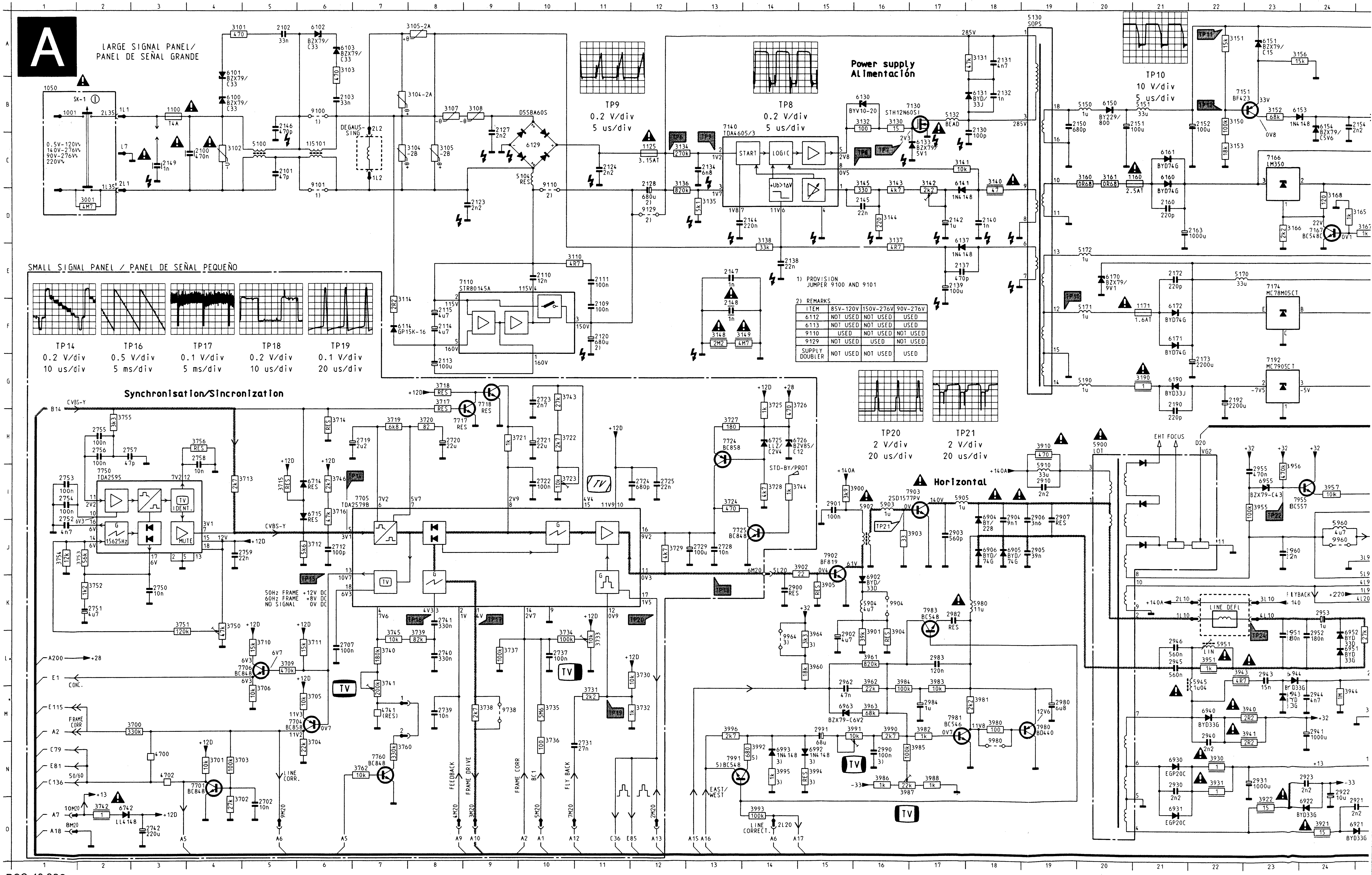

TP62
10 V/DIV
0.5 ms/div


TP63
10 V/DIV
0.5 ms/div


TP64
10 V/DIV
0.5 ms/div


TP65
10 V/DIV
0.5 ms/div

Power supply and synchronisation


A
LARGE SIGNAL PANEL/
PANEL DE SEÑAL GRANDE
SMALL SIGNAL PANEL / PANEL DE SEÑAL PEQUEÑO
Power supply
Alimentación
Synchronisation/Sincronization
Horizontal
0.5V-120V~
140V-276V~
220V~
DEGAUS-SING
TP9 0.2 V/div 5 us/div
TP8 0.2 V/div 5 us/div
TP10 10 V/div 5 us/div
TP14 0.2 V/div 10 us/div
TP16 0.5 V/div 5 ms/div
TP17 0.1 V/div 5 ms/div
TP18 0.2 V/div 10 us/div
TP19 0.1 V/div 20 us/div
TP20 2 V/div 20 us/div
TP21 2 V/div 20 us/div
TDA4605/3
START
LOGIC
STR80145A
STH12N60SI
5130 SOPS
5900 LOT
LM350
MC78M05CT
MC7905CT
TDA2595
TDA2579B
15625Hz
IDENT.
MUTE
CVBS-Y
LINE DEFL
EHT FOCUS
FLYBACK
STD-BY/PROT
FEEDBACK
FRAME DRIVE
FRAME CORR
FLY BACK
LINE CORR.
EAST/WEST
LINE CORRECT.
50Hz FRAME +12V DC
60Hz FRAME +8V DC
NO SIGNAL 0V DC

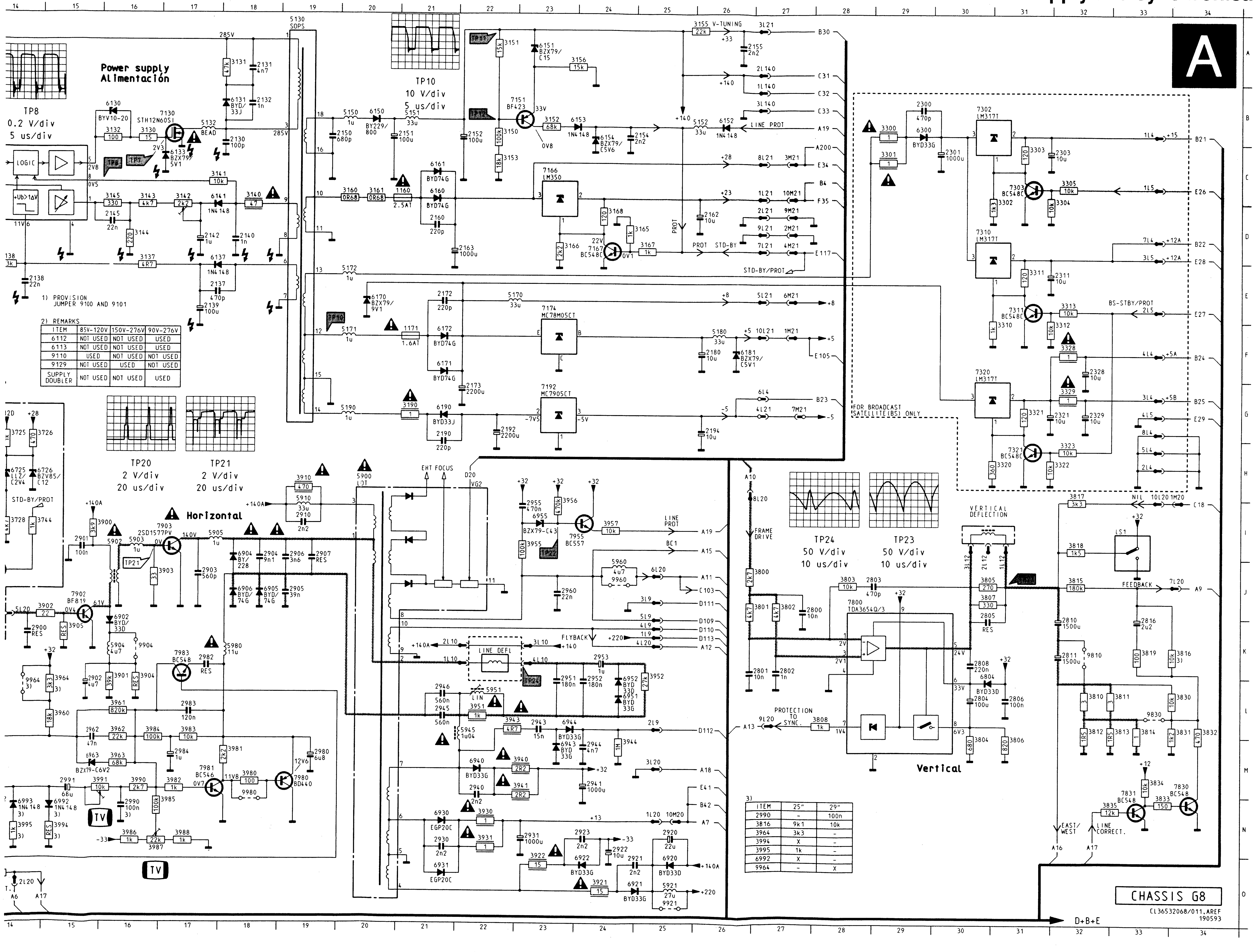
1) PROVISION
JUMPER 9100 AND 9101

2) REMARKS

ITEM	85V-120V	150V-276V	90V-276V
6112	NOT USED	NOT USED	USED
6113	NOT USED	NOT USED	USED
9110	USED	NOT USED	NOT USED
9129	NOT USED	USED	NOT USED
SUPPLY DOUBLER	NOT USED	NOT USED	USED

Power supply and synchronisation

A



1) PROVISION JUMPER 9100 AND 9101

2) REMARKS

ITEM	85V-120V	150V-276V	90V-276V
6112	NOT USED	NOT USED	USED
6113	NOT USED	NOT USED	USED
9110	USED	NOT USED	NOT USED
9129	NOT USED	USED	NOT USED
SUPPLY DOUBLER	NOT USED	NOT USED	USED

3)

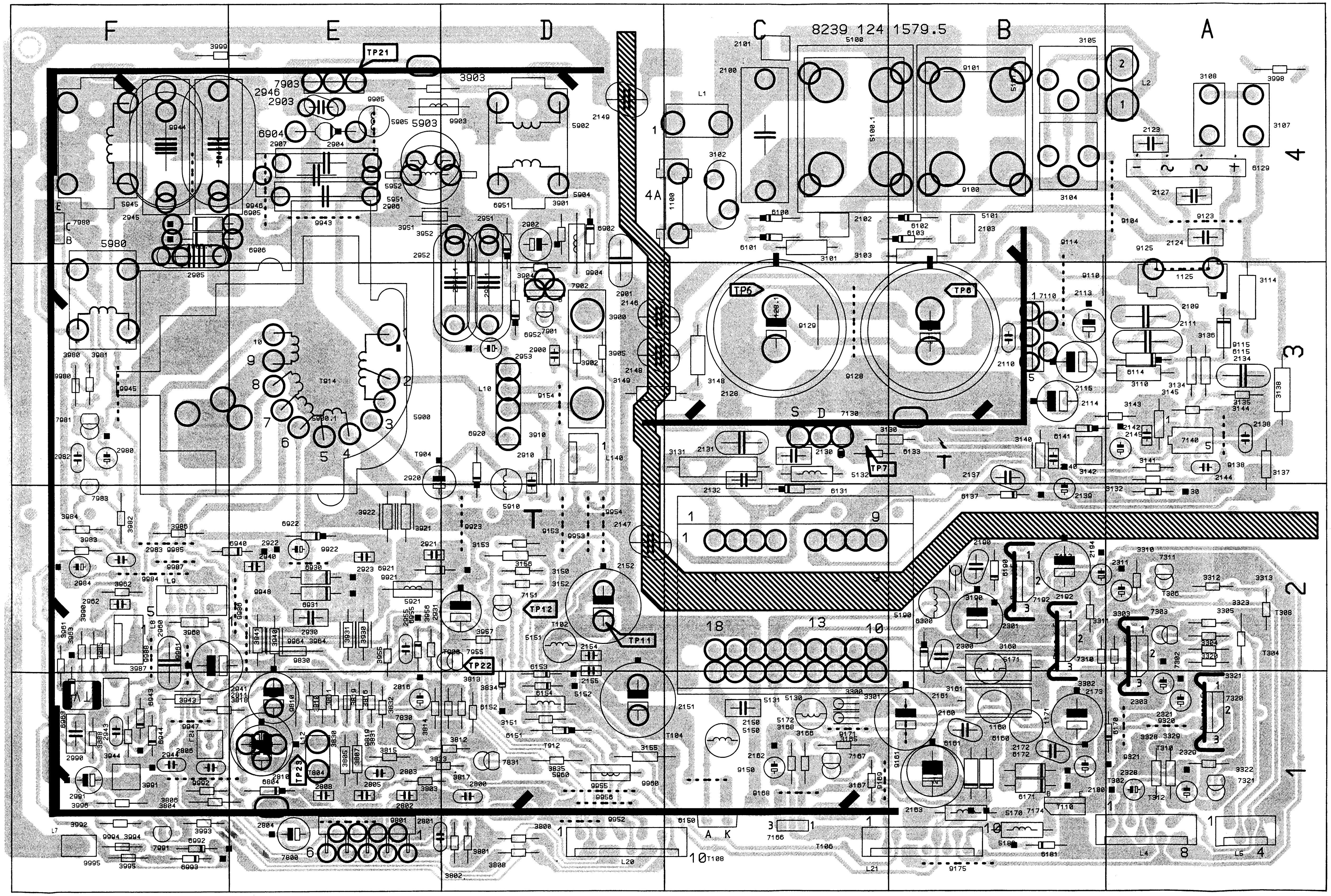
ITEM	25"	29"
2990	-	100n
3816	9k1	10k
3964	3k3	-
3994	X	-
3995	1k	-
6992	X	-
9964	-	X

CHASSIS G8

CL36532068/011.AREF
190593

TP6	C12	2904	J18	3732	M12	6101	A 4
TP7	C16	2905	J19	3733	L11	6102	A 6
TP8	C16	2906	J19	3734	L10	6103	A 6
TP9	C13	2907	J19	3735	M10	6114	F 7
TP10	E19	2910	I19	3736	M10	6129	C10
TP11	A22	2920	N25	3737	L 9	6130	B16
TP12	B22	2921	O25	3738	M 9	6131	B18
TP14	I 7	2922	N24	3739	L 8	6133	C17
TP15	K 6	2923	N24	3740	L 7	6137	E17
TP16	K 8	2930	N21	3741	L 7	6141	C17
TP17	K 9	2931	N23	3742	O 2	6150	B20
TP18	K13	2940	M22	3743	G10	6151	A23
TP19	M11	2941	M24	3744	I14	6152	B26
TP20	K12	2943	L23	3745	L 7	6153	B23
TP21	J16	2944	M24	3746	I 6	6154	B24
TP22	I23	2945	L21	3750	K 4	6160	C21
TP23	J31	2946	L21	3751	K 3	6161	C21
TP24	L23	2951	L23	3752	K 2	6170	E20
1100	B 3	2952	L24	3753	J 2	6171	F21
1125	C12	2953	K24	3754	J 1	6172	F21
1160	C21	2955	I23	3755	H 2	6181	F26
1171	F21	2960	J23	3756	H 4	6190	G21
2100	**C 4**	**2962**	**L15**	**3760**	**N 7**	**6300**	**B29**
2101	**C 5**	**2980**	**M19**	**3762**	**N 7**	**6714**	**I 6**
2102	**A 5**	**2982**	**K17**	**3800**	J27	6715	I 6
2103	B 6	2983	L17	3801	J27	6725	H14
2109	F11	2984	M17	3802	J27	6726	H14
2110	E10	2990	N16	3803	J28	6742	O 2
2111	E11	2991	M15	3804	L30	6804	L30
2113	G 8	3001	D 2	3805	J30	6902	K16
2114	F 8	3101	A 4	3806	L31	6904	J18
2115	F 8	3102	C 4	3807	J30	6905	J18
2120	F11	3103	A 6	3808	L28	6906	J18
2123	C 9	3104	C 7	3810	L32	6920	O25
2124	C11	3104	B 7	3811	L33	6921	O25
2127	C 9	3105	A 8	3812	L32	6922	O24
2128	C12	3105	C 8	3813	L33	6930	N21
2130	C18	3107	B 8	3814	L33	6931	O21
2131	A18	3108	B 9	3815	J32	6940	M22
2132	B18	3110	E10	3816	K34	6943	M23
2134	C13	3114	E 7	3817	H32	6944	L23
2137	E17	3130	B16	3818	I32	6951	L24
2138	E14	3131	A18	3819	K33	6952	L24
2139	E17	3132	B16	3830	L34	6955	I23
2140	D18	3134	C12	3831	L34	6963	M15
2142	D17	3135	D13	3832	L34	6992	N15
2144	D14	3136	C12	3833	N33	6993	N14
2145	D16	3137	E16	3834	M33	7110	E 8
2146	B 5	3138	E14	3835	N33	7130	B17
2147	E13	3140	C18	3900	I15	7140	B13
2148	F13	3141	C17	3901	K16	7151	B23
2149	C 3	3142	C17	3902	J15	7166	C23
2150	B19	3143	C16	3903	J16	7167	D24
2151	B20	3144	D16	3904	K16	7174	E23
2152	B22	3145	C16	3905	K15	7192	G23
2154	B24	3148	F13	3910	H19	7302	B30
2155	A26	3149	F14	3921	O24	7303	C31
2160	D21	3150	B22	3922	O23	7310	D30
2162	D26	3151	A22	3930	N22	7311	E31
2163	D21	3152	B23	3931	N22	7320	F30
2172	E21	3153	C22	3940	M23	7321	H31
2173	G22	3155	A26	3941	M23	7701	N 4
2180	F26	3156	A23	3943	L22	7704	M 6
2190	G21	3160	C20	3944	M24	7705	I 7
2192	G22	3161	C20	3951	L22	7706	L 5
2194	G26	3165	D24	3952	K25	7717	H 9
2300	B29	3166	D23	3955	I23	7718	G 9
2301	C30	3167	D25	3956	H23	7724	H13
2303	C32	3168	D24	3957	I24	7725	J14
2311	E32	3190	G21	3960	L15	7750	I 2
2321	G32	3300	B29	3961	L16	7760	N 7
2328	F32	3301	C29	3962	L16	7800	J28
2329	G32	3302	C31	3963	M16	7830	M34
2702	O 5	3303	C31	3964	L15	7831	M33
2707	L 6	3304	C32	3980	M18	7902	J15
2712	J 6	3305	C32	3981	M18	7903	I17
2719	H 7	3310	E31	3982	M17	7955	I24
2720	H 8	3311	E31	3983	L17	7980	M19
2721	H10	3312	E32	3984	L16	7981	M17
2722	I10	3313	E32	3985	N17	7983	K17
2723	G10	3320	H31	3986	N16	7991	N13
2724	I12	3321	G31	3987	N16	9100	B 6
2725	I12	3322	H32	3988	N17	9101	D 6
2728	J13	3323	H32	3990	M16	9110	D10
2729	J13	3328	F32	3991	M16	9129	D12
2731	N11	3329	G32	3992	N14	9738	M 9
2737	L10	3700	M 3	3993	O14	9810	K32
2739	M 8	3701	N 4	3994	N15	9830	L33
2740	L 8	3702	O 4	3995	N14	9904	K16
2741	K 8	3703	N 4	3996	M13	9921	O25
2742	O 3	3704	M 6	4741	M 7	9960	J24
2750	K 3	3705	M 6	5100	C 5	9964	L14
2751	K 2	3706	L 5	5101	C 6	9980	N18
2752	J 1	3709	L 5	5104	C10		
2753	I 1	3710	L 5	5130	A19		
2754	I 1	3711	L 6	5132	B17		
2755	H 2	3712	J 6	5150	B20		
2756	H 2	3713	I 4	5151	B21		
2757	H 2	3714	H 6	5152	B26		
2758	H 4	3715	I 5	5170	E22		
2759	J 4	3716	I 6	5171	F20		
2800	J27	3717	G 8	5172	E20		
2801	K27	3718	G 8	5180	F26		
2802	K27	3719	H 7	5190	G20		
2803	J29	3720	H 8	5900	H20		
2804	L30	3721	H 9	5902	I16		
2805	J30	3722	H10	5903	I16		
2806	L31	3723	I10	5904	K16		
2808	K30	3724	I13	5905	I17		
2810	K32	3725	G14	5910	I19		
2811	K32	3726	G14	5921	O25		
2816	K33	3727	H13	5945	L22		
2900	K14	3728	I14	5951	L22		
2901	I15	3729	J12	5960	J24		
2902	L15	3730	L12	5980	K18		
2903	J17	3731	M11	6100	B 4		

Large signal panel



L1	C4	L9	F2	2110	B3	2128	C3	2145	A3	2161	B1	2301	B2	2805	E1	2904	E4	2931	D2	2951	D3
L10	D3	LS1	F1	2110	B3	2130	C3	2146	D3	2162	C1	2303	A1	2806	F1	2905	F4	2940	E2	2952	D3
L12	E1	1100	C4	2111	A3	2131	C3	2147	D2	2163	B1	2311	A2	2808	E1	2905	F4	2941	F2	2952	D3
L140	D3	1125	A3	2113	B3	2132	C2	2148	D3	2163	B1	2321	A1	2810	E1	2906	E4	2943	F1	2953	D3
L2	A4	1160	B1	2114	B3	2134	A3	2149	D4	2172	B1	2328	A1	2810	E1	2907	E4	2944	F1	2955	E2
L20	D1	1171	B1	2115	B3	2137	B2	2150	C1	2173	B1	2329	A1	2811	E1	2910	D2	2945	F4	2960	F2
L21	B1	2100	C4	2120	B3	2138	A3	2151	D1	2180	B1	2800	D1	2816	E1	2920	E2	2945	F4	2962	F2
L4	A1	2101	C4	2123	A4	2139	B2	2152	D2	2190	B2	2801	E1	2900	D3	2921	E2	2945	F4	2980	F3
L5	A1	2102	C4	2124	A4	2140	B3	2154	D2	2192	B2	2802	E1	2901	D3	2922	E2	2946	F4	2982	F3
L7	F1	2103	B4	2127	A4	2142	A3	2155	D2	2194	B2	2803	E1	2902	D4	2923	E2	2946	F4	2983	F2
L8	F2	2109	A3	2128	C3	2144	A3	2160	B1	2300	B2	2804	E1	2903	E4	2930	E2	2951	D3	2984	F2

2990	F1	3130	B3	3143	A3	3160	B2	3304	A2	3329	A1	3811	E1	3832	E1	3921	E2	3956	E2	3984	F2
2991	F1	3131	C3	3144	A3	3161	B1	3305	A2	3800	D1	3812	D1	3833	D1	3922	E2	3957	D2	3985	F2
3101	C4	3132	A2	3145	A3	3165	C1	3310	A2	3801	D1	3813	D1	3834	D1	3930	E2	3960	F2	3986	F2
3102	C4	3134	A3	3148	C3	3166	C1	3311	B2	3802	D1	3814	E1	3835	D1	3931	E2	3961	F2	3987	F1
3103	B4	3135	A3	3149	D3	3167	C1	3312	A2	3803	E1	3815	E1	3900	D3	3940	E2	3962	F2	3988	F1
3104	B4	3136	A3	3150	D2	3168	C1	3313	A2	3804	F1	3816	E1	3901	D4	3941	E2	3963	F2	3990	F2
3105	B4	3137	A3	3151	D1	3190	B2	3320	A2	3805	E1	3817	E1	3902	D3	3943	F1	3964	E2	3991	F1
3107	A4	3138	A3	3152	D2	3300	C1	3321	A2	3806	F1	3818	F1	3903	E4	3944	F1	3980	F3	3992	F1
3108	A4	3140	B3	3153	D2	3301	C1	3322	A1	3807	E1	3819	E1	3904	D3	3951	E4	3981	F3	3993	F1
3110	A3	3141	A3	3155	D1	3302	B2	3323	A2	3808	D1	3830	E1	3905	D3	3952	D3	3982	F2	3994	F1
3114	A3	3142	B3	3156	D2	3303	A2	3328	A1	3810	E1	3831	E1	3910	D2	3955	E2	3983	F2	3995	F1

3996	F1	7901	D3
3998	A4	7902	D3
3999	F4	7903	E4
5100	C4	7955	D2
5100	C4	7980	F4
5101	B4	7981	F3
5101	B4	7981	F3
5130	C2	7983	F2
5131	C2	7991	F1
5132	C2	9100	B4
5150	C1	9101	B4
5151	D2	9104	A4
5152	D1	9110	B3
5170	B1	9114	B3
5171	B2	9115	A3
5172	C1	9123	A4
5180	B1	9125	A3
5190	B2	9128	C3
5900	E3	9129	C3
5902	D4	9138	A3
5903	E4	9150	C1
5904	D4	9153	D2
5905	E4	9154	D3
5910	D2	9161	B1
5921	E2	9168	C1
5945	F4	9169	C1
5951	E4	9171	C1
5952	E4	9175	B1
5960	D1	9320	A1
5980	F3	9321	A1
6100	C4	9801	E1
6101	C4	9810	E1
6102	B4	9819	E1
6103	B4	9830	E2
6114	A3	9903	E4
6115	A3	9904	D4
6129	A4	9905	E4
6130	A2	9921	E2
6131	C2	9922	E2
6133	C3	9923	D2
6137	B2	9943	E4
6141	B3	9944	F4
6150	C1	9945	F3
6151	D1	9946	E4
6152	D2	9947	F1
6153	D2	9948	E2
6154	D1	9952	D1
6160	B1	9953	D2
6161	B1	9954	D2
6170	A1	9955	D1
6171	B1	9956	D1
6172	B1	9960	D1
6181	B1	9961	F2
6190	B2	9964	E2
6300	B2	9980	F3
6804	E1	9984	F2
6902	D4	9985	F2
6904	E4	9986	E2
6905	F4	9987	F2
6906	F4	9988	F2
6920	D2	9992	F1
6921	E2	9994	F1
6922	E2	9995	F1
6930	E2		
6931	E2		
6940	E2		
6943	F1		
6944	F1		
6951	D4		
6952	D3		
6955	E2		
6963	F1		
6992	F1		
6993	F1		
7110	B3		
7130	C3		
7140	A3		
7151	D2		
7166	C1		
7167	C1		
7174	B1		
7192	B2		
7192	B2		
7302	A2		
7302	A2		
7303	A2		
7310	B2		
7310	B2		
7311	A2		
7320	A1		
7320	A1		
7321	A1		
7800	E1		
7830	E1		
7831	D1		

Circuit

Introduction

1. The power s
Switched M
2. Basic chara
- Mains isol
- Single MO
- Input volta
- Frequency
power sup
* Duri
(mai
(mai
* Duri
- Slowstart
- Protection

Block diagram

1. The mains v
D6129
2. In case of lo
(IC7110, in
output, pin 3
3. Via the start
4. Duty cycle c
controlled b
5. Control IC7
winding 6-7)
6. From secon
and +33 are
7. From secon
obtained:
a. The +28 i
the sounc
b. The +23 f
c. +5 supply
d. +8 supply
e. -5 supply
Winding

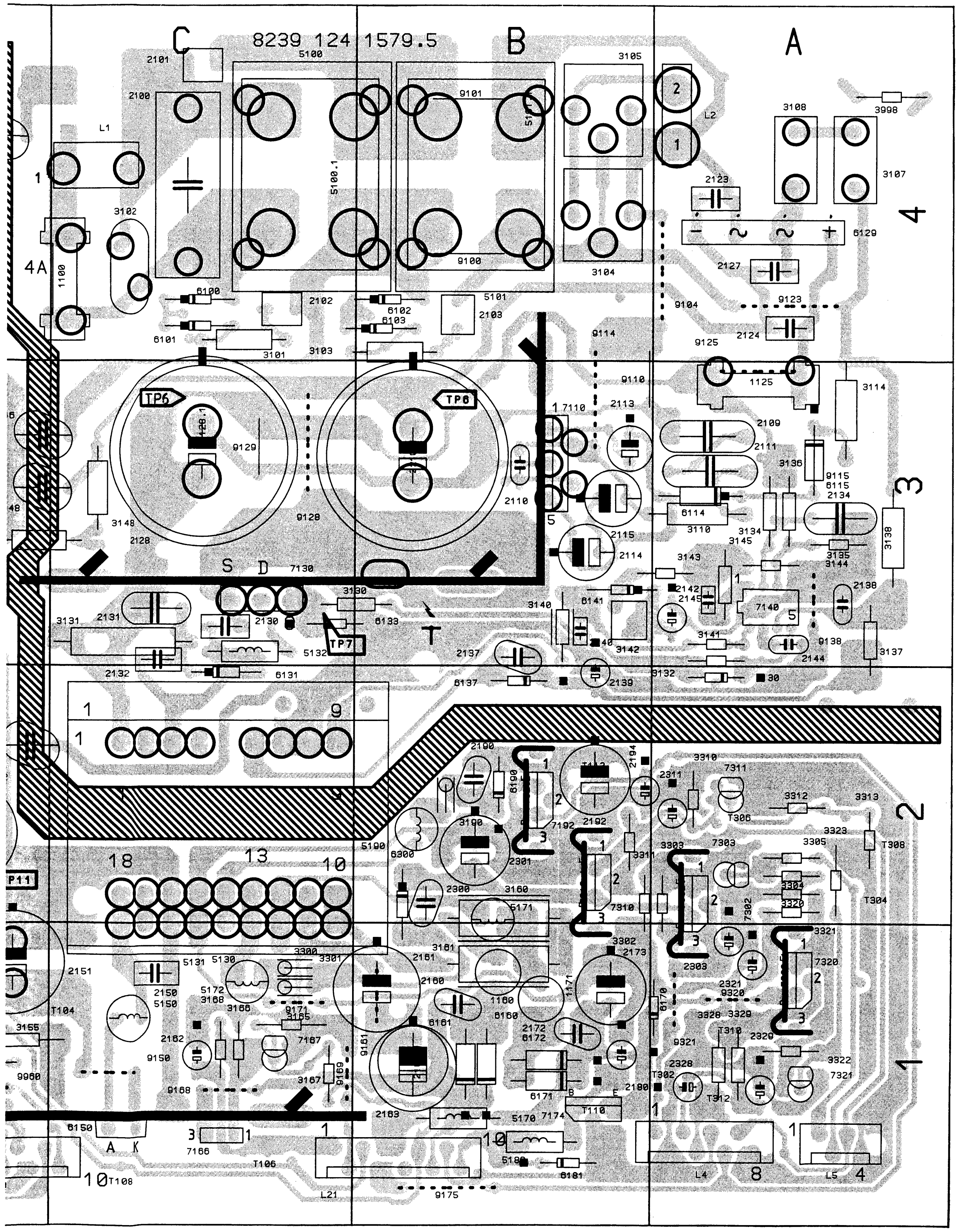
Switch mode

The switching perio

A. During **T-on**
- Energy is
T5130
- I-prim dep
- IC7140 co
cycle of IC
B. During **T-of**
- Energy "in
T5130
C. During **T-de**
- No energy

Primary side

1. Start up
- Function:
Start up th
- Operation:
* Star
IC7
2. Take over c
- Function:
Take over
- Operation:
* Swi
con

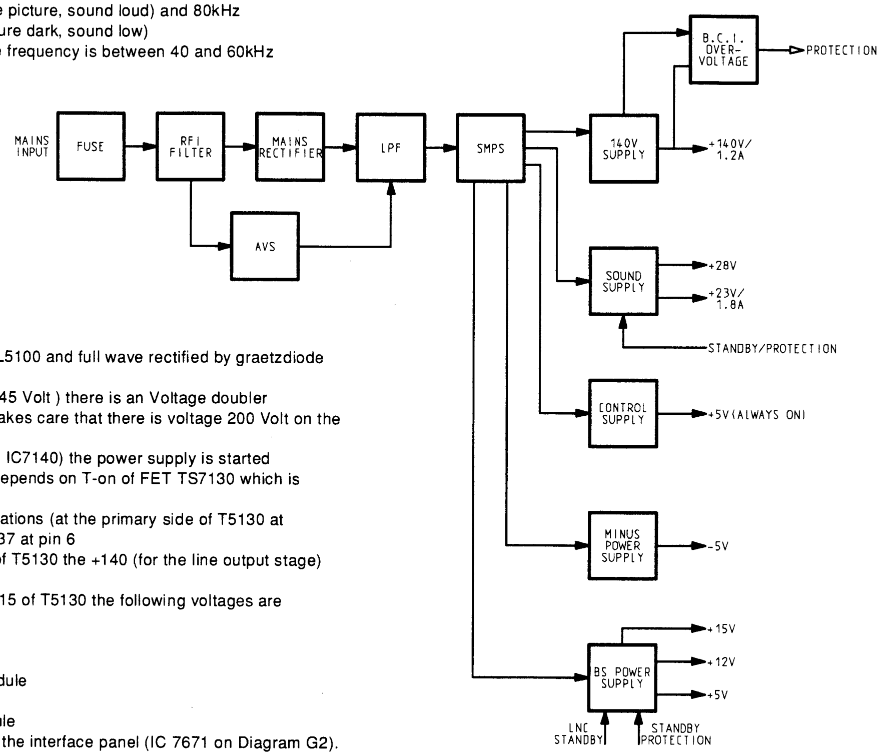


2951	D3
2952	D3
2952	D3
2953	D3
2955	E2
2960	F2
2962	F2
2980	F3
2982	F3
2983	F2
2984	F2
2990	F1
2991	F1
3101	C4
3102	C4
3103	B4
3104	B4
3105	B4
3107	A4
3108	A4
3110	A3
3114	A3
3130	B3
3131	C3
3132	A2
3134	A3
3135	A3
3136	A3
3137	A3
3138	A3
3140	B3
3141	A3
3142	B3
3143	A3
3144	A3
3145	A3
3148	C3
3149	D3
3150	D2
3151	D1
3152	D2
3153	D2
3155	D1
3156	D2
3160	B2
3161	B1
3165	C1
3166	C1
3167	C1
3168	C1
3190	B2
3300	C1
3301	C1
3302	B2
3303	A2
3304	A2
3305	A2
3310	A2
3311	B2
3312	A2
3313	A2
3320	A2
3321	A2
3322	A1
3323	A2
3328	A1
3329	A1
3800	D1
3801	D1
3802	D1
3803	E1
3804	F1
3805	E1
3806	F1
3807	E1
3808	D1
3810	E1
3811	E1
3812	D1
3813	D1
3814	E1
3815	E1
3816	E1
3817	E1
3818	F1
3819	E1
3830	E1
3831	E1
3832	E1
3833	D1
3834	D1
3835	D1
3900	D3
3901	D4
3902	D3
3903	E4
3904	D3
3905	D3
3910	D2
3921	E2
3922	E2
3930	E2
3931	E2
3940	E2
3941	E2
3943	F1
3944	F1
3951	E4
3952	D3
3955	E2
3956	E2
3957	D2
3960	F2
3961	F2
3962	F2
3963	F2
3964	E2
3980	F3
3981	F3
3982	F2
3983	F2
3984	F2
3985	F2
3986	F2
3987	F1
3988	F1
3990	F2
3991	F1
3992	F1
3993	F1
3994	F1
3995	F1
3996	F1
3998	A4
3999	F4
5100	C4
5100	C4
5101	B4
5101	B4
5130	C2
5131	C2
5132	C2
5150	C1
5151	D2
5152	D1
5170	B1
5171	B2
5172	C1
5180	B1
5190	B2
5900	E3
5902	D4
5903	E4
5904	D4
5905	E4
5910	D2
5921	E2
5945	F4
5951	E4
5952	E4
5960	D1
5980	F3
6100	C4
6101	C4
6102	B4
6103	B4
6114	A3
6115	A3
6129	A4
6130	A2
6131	C2
6133	C3
6137	B2
6141	B3
6150	C1
6151	D1
6152	D2
6153	D2
6154	D1
6160	B1
6161	B1
6170	A1
6171	B1
6172	B1
6181	B1
6190	B2
6300	B2
6804	E1
6902	D4
6904	E4
6905	F4
6906	F4
6920	D2
6921	E2
6922	E2
6930	E2
6931	E2
6940	E2
6943	F1
6944	F1
6951	D4
6952	D3
6955	E2
6963	F1
6992	F1
6993	F1
7110	B3
7130	C3
7140	A3
7151	D2
7166	C1
7167	C1
7174	B1
7192	B2
7192	B2
7302	A2
7302	A2
7303	A2
7310	B2
7310	B2
7311	A2
7320	A1
7320	A1
7321	A1
7800	E1
7830	E1
7831	D1
7901	D3
7902	D3
7903	E4
7955	D2
7980	F4
7981	F3
7981	F3
7983	F2
7991	F1
9100	B4
9101	B4
9104	A4
9110	B3
9114	B3
9115	A3
9123	A4
9125	A3
9128	C3
9129	C3
9138	A3
9150	C1
9153	D2
9154	D3
9161	B1
9168	C1
9169	C1
9171	C1
9175	B1
9320	A1
9321	A1
9801	E1
9810	E1
9819	E1
9830	E2
9903	E4
9904	D4
9905	E4
9921	E2
9922	E2
9923	D2
9943	E4
9944	F4
9945	F3
9946	E4
9947	F1
9948	E2
9952	D1
9953	D2
9954	D2
9955	D1
9956	D1
9960	D1
9961	F2
9964	E2
9980	F3
9984	F2
9985	F2
9986	E2
9987	F2
9988	F2
9992	F1
9994	F1
9995	F1

Circuit Description: Power Supply G8

Introduction

1. The power supply of the G8 is a variable frequency and variable Duty-cycle Switched Mode Power Supply, SMPS
2. Basic characteristics of G8 switched mode power supply:
   - Mains isolated flyback converter type
   - Single MOS switching device
   - Input voltage range 90 - 276V
   - Frequency and duty cycle are depending on the mains-input voltage and power supply output load
     * During normal operation the switching frequency is between 25kHz (mains voltage low, white picture, sound loud) and 80kHz (mains voltage high, picture dark, sound low)
     * During standby mode the frequency is between 40 and 60kHz
   - Slowstart circuitry
   - Protections circuits



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Block diagram

1. The mains voltage is filtered by L5100 and full wave rectified by graetzdiode D6129
2. In case of low mains version (145 Volt) there is an Voltage doubler (IC7110, in block "AVS") which takes care that there is voltage 200 Volt on the output, pin 3 of IC7110.
3. Via the start up circuitry (internal IC7140) the power supply is started
4. Duty cycle of the power supply depends on T-on of FET TS7130 which is controlled by IC7140 pin 5
5. Control IC7140 "sees" V-out variations (at the primary side of T5130 at winding 6-7) via D6137 and R3137 at pin 6
6. From secondary winding 18-16 of T5130 the +140 (for the line output stage) and +33 are obtained
7. From secondary windings 11 till 15 of T5130 the following voltages are obtained:
   a. The +28 is obtained for:
   the sound output amplifiers
   b. The +23 for tuning control module
   c. +5 supply voltage for µC
   d. +8 supply for the control module
   e. -5 supply for the control IC on the interface panel (IC 7671 on Diagram G2). Winding 13 is used for supplies of the broadcast satellite (BS) sets (Japan).

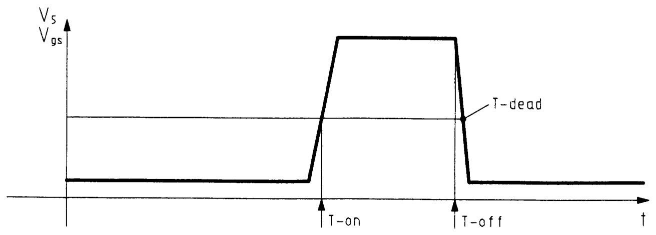
Switch mode

The switching period of TS7130 is divided in three main areas T-on, T-off and T-dead:

A. During **T-on** (switch closed)
   - Energy is extracted from V-in into the primary winding 1-3 of transformer T5130
   - I-prim depends on the secondary load and is controlled by IC7140
   - IC7140 controls the transfer of energy by altering the frequency and duty cycle of IC7130

B. During **T-off** (switch open)
   - Energy "inside" transformer is supplied to the load via secondary windings of T5130

C. During **T-dead** (switch open)
   - No energy is extracted or supplied



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Primary side

1. Start up
   - Function:
   Start up the power supply in a controlled way
   - Operation:
     * Start up via R3138 and C2138 mains voltage is used to start up IC7140 at supply pin 6.
2. Take over of IC7140
   - Function:
   Take over the power supply of IC7140 after start up
   - Operation:
     * Switch on, the supply voltage on pin 6, is taken from R3137 and D6137 connected to winding 6 of T5130 4.

Control circuitry

* The output pulse width on pin 5 is regulated by the input on pin 1 (via winding 9-8 of T5130, R3140 and D6141 etc.) V pin 1 is compared with a internal reference voltage.This value depends on the secondary load. So the regulation is adapted to the load on secondary side
* Mains voltage increases --> current in winding 1-3 increases --> voltage on R3134 and C2134 (RC-network) increases at pin 2.
  If V-pin 2 = V-pin 1 then V-out at pin 5 switches off FET 7130

3. Multi voltage
   - Function:
   Enabling mains voltages between 90-276V or 140-276V
   - Operation:
     * Mains Voltage is sensed by IC 7110 at pin 5 via R3114 and D6114.
     * Mains voltage 145- 276V: no voltage doubler is required.
       D6129 (internal IC 7110 switches as double phase rectifier.
       Voltage across C2128 + C2120 = 210 -370 Volt.
     * Mains voltage 90 - 145 volt; voltage doubler required. D6129 switches as single rectifier voltage across C2128 + C2120 = 210 - 370 volt.
       For further details see repair manual
       (ordering number 4822 727 19446).

Control circuitry

In IC7140 there are tree protection circuits:

1. Overload
   Convert the I-out at the secondary side of the transformer into a current at the primary side of the transformer which can be used on pin 2 to switch off IC7140
2. Undervoltage
   Controls V-in of the mains on pin 3 if this voltage is to low IC7140 is switched off
3. Overvoltage
   If V-in is to high, at pin 6, IC7140 is switched off

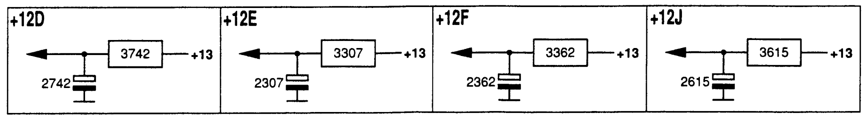
1. Overload
   - Function: Switches IC7140/ TS7130 off if the secondary current is too high
     The primary current is simulated at pin 2 of IC7140
   - Operation:
     * Current from windings 1-3 give via RC-network (R3134 and C2134) a voltage increase on pin 2
       If V-2 V-ref at pin 1 then IC7140 switches off--> no output on pin 5 --> TS7130 off
     * With R3142 this V-ref can be adjusted
     * D6141 and C2142 level the V-ref
2. Undervoltage
   - Function: When V-3 is to low IC7140 switches off
   - Operation:
     * Input voltage is via R3136 and R3135 given to pin 3 if V-3 V-internal then IC7140 switches off --> no output at pin 5
3. Overvoltage
   - Function: when V-6 is to high IC7140 switches off
   - Operation:
     * Input voltage on V-6, via R3138 and C2138, is too high.
       V-6 V-max (internal voltage threshold) IC7140 switches off
       (no output at pin 5)

Secondary side

1. +140 for line output stage
   - voltage across winding 18-16 of T5130 is rectified by D6150
2. +23 for the line sync. IC
   - Voltage across winding 10-11 of T5130 is rectified via D6160/D6161 and stabilized by 7166
3. +28 for sound output amplifiers
4. Stand-by
   - Function:
     Switches secondary the +23V off and so the set
   - Operation:
     * Stand-by signal drives:
       -A TS7167 --> no +23V -- >sound is switched off
       -B TS7725 --> no +28V --> line sync. oscillator switched off --> no line drive
5. Overvoltage protection
   - Function:
     Switch set into stand-by if +140 exceeds 145V
   - Operation:
     * +Voltage over R3151 15.6 volt TS7151 is conducting via R3152 and D6153 a "high" voltage is supplied to stand-by--> stand-by.
6. line protection.
   - Function:
     BCI too high --> line prot = 32V --> stand-by +23V in standby
   - Operation:
     * line protection line becomes 32V
     * via L5152 and D6152 and zener D6154 a "high" voltage to --> stand-by
7. Derived from +140
   - +33 for tuning supply
8. +5
   - Function:
     Deliver +5 supply voltage for the µC
   - Operation:
     * Voltage across winding 12-15 from T5130 is rectified by D6172 and D6171 and stabilized by TS7174
     * The 5.0V is smoothed and filtered by C2173 and L5171
     * D6181 stabilizes the +5 for the µC
9. -5
   - Function:
     Deliver -5 supply voltage for control IC7671 on the interconnection panel and broadcast stereo panel
   - Operation:
     * Voltage across windings 14-15 from T5130 is rectified by L5190/D6190 and stabilized by TS7192

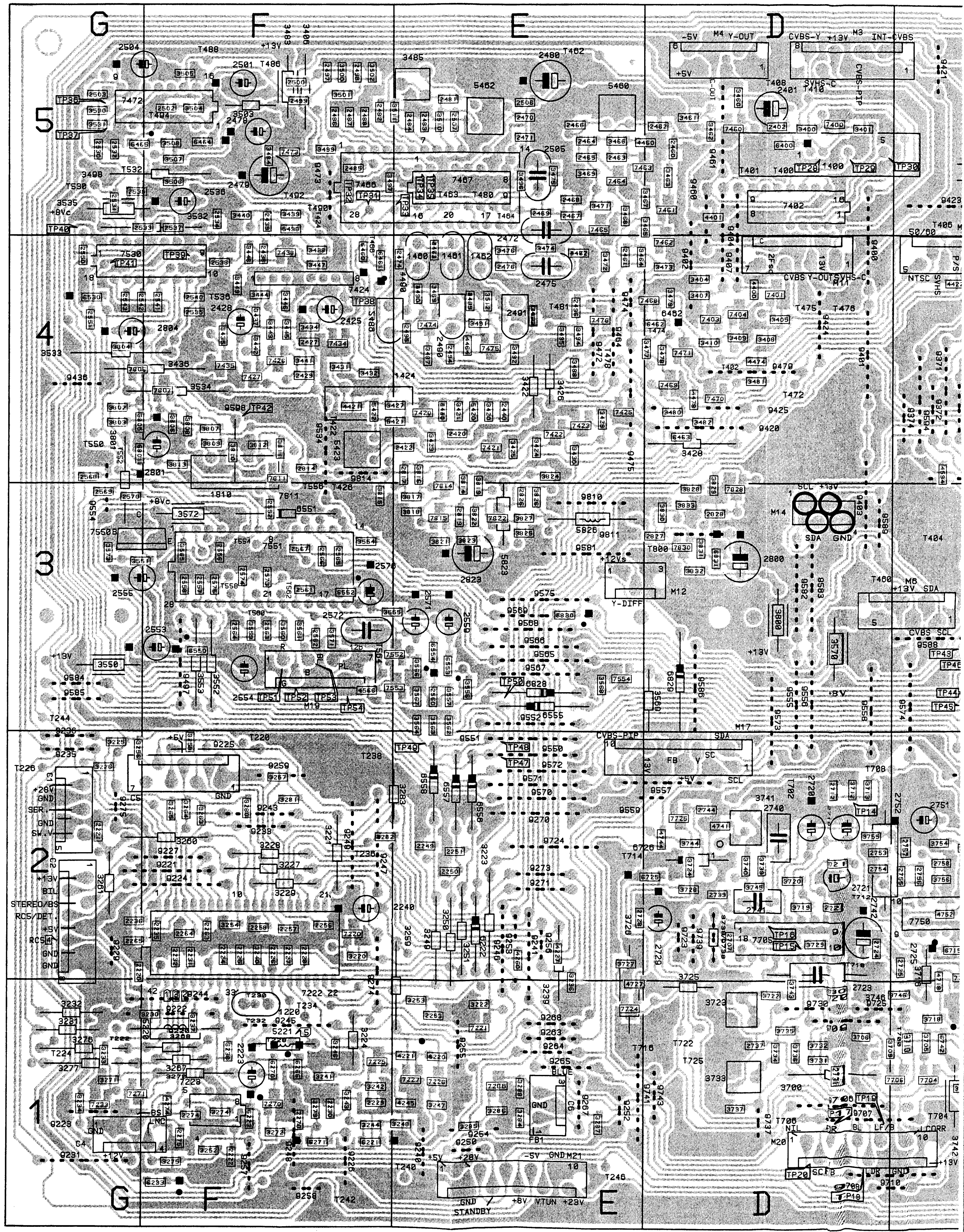
Survey of voltages

		+220	+220L	+140	+33	+32	-33	+28	+23	+15	+13	+12	+12A	+12B	+12C	+12D	+12E	+12F	+12G	+12H	+12J	+12K	+12L	+12M	+12N	+12S	+9	+8	+8A	+8C	+8D	+6	+5	+5A	+5B	+5C	+5D	-5	+5E	+5F	+5G	+10A	+12P
generating by	part of manual	A	D	A	A	A	A	A	A	A	A	A	A	C	C	A	B	B	G2	G2	F	D	G1	G1	G1	C	G1	A	I	C	C	F	A	A	A	G2	G2	A	I	I	I	I	I
	grid square	O/26	M/8	B/26	A/26	M/2Y	N/24	C/26	D/26	B/33	N/25	K/32	D/33	B/33	A/13	O/2	E/2	G/2	A18	O/2	O/8	B/2	B/3	A/3	B3	L/24	A/3	E/28	K/4	C/33	C/33	D/7	F/28	F/33	G/33	A/18	N/2	G/28	N/5	M/5	N/5	J/4	I/4
circuit diagram	**A**	X		X		X	X				X					X																											
circuit diagram	**B**				X				X	X	X	X					X	X										X					X	X	X								
circuit diagram	**C**										X		X	X	X											X		X		X			X										
circuit diagram	**D**		X											X								X						X															
circuit diagram	**E**							X			X																						X										
circuit diagram	**F**								X		X										X											X											
circuit diagram	**G1**																		X	X				X			X																
circuit diagram	**G2**																						X		X												X	X					
BS tuner module										X		X																					X	X	X								
side front connections panel																				X																	X						
LED panel											X																						X										
local keyboard panel								X																																			
CRT panel			X											X								X																					
side rear connections panel																			X																	X							
interface panel											X												X	X	X		X																
* TXT panel											X																	X															
PIP panel											X																						X										
multi/mono panel											X																	X	X										X	X	X	X	X
* Korea 2cs panel											X																						X										
BTSC panel											X																						X										
Japan stereo pan.											X																						X					X					
NICAM panel											X																	X	X										X	X	X	X	X



36532073/014
280493

Small signal panel



Small signal panel

61 and

d off -->

152 and

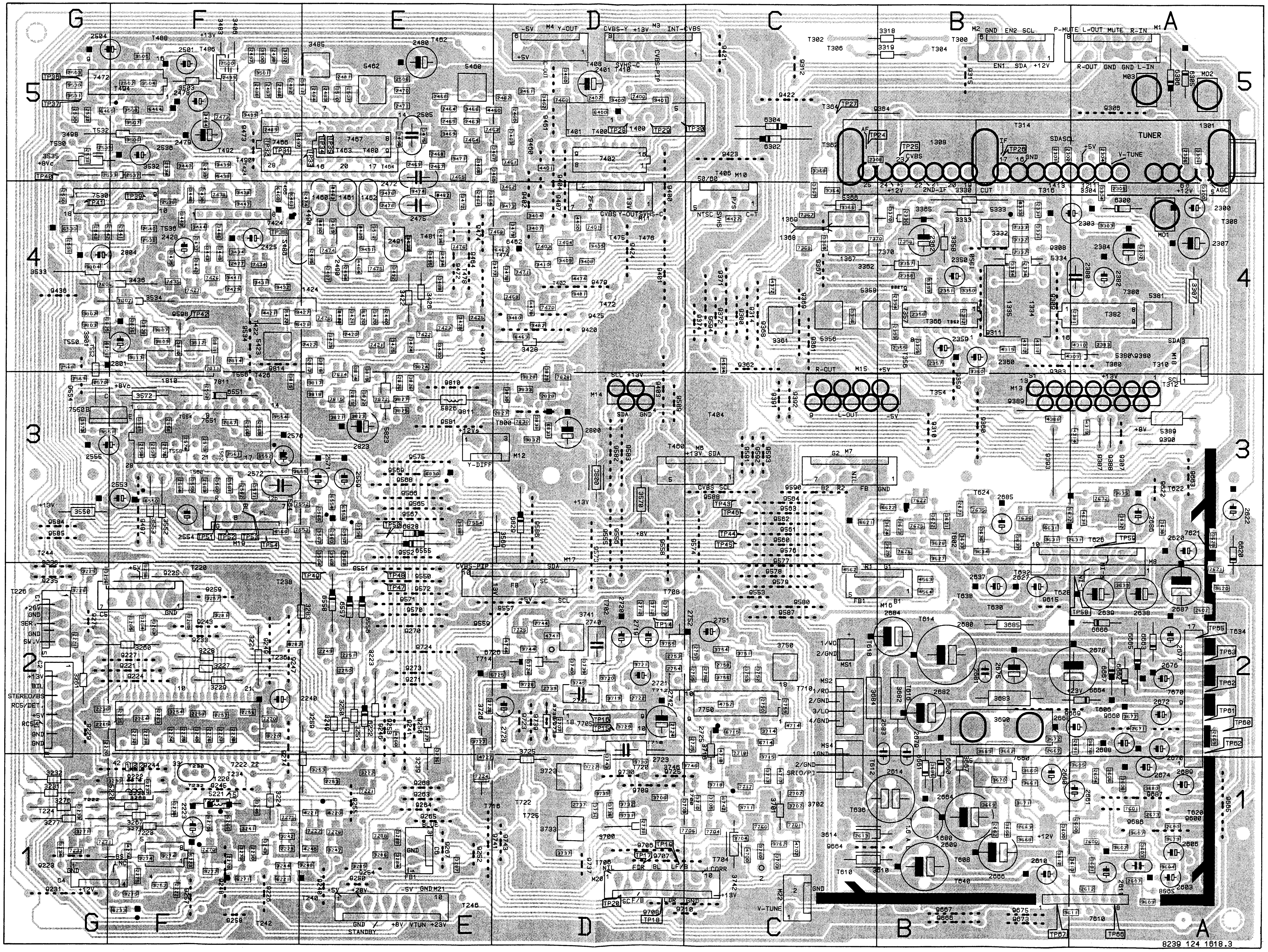
-> stand-by

172 and

panel and

190/D6190

+5G	+10A	+12P
I	I	I
N/5	J/4	I/4
X	X	X
X	X	X


G
F
E
D
C
B
A
5
4
3
2
1
TUNER
M03
M02
M01
Y-DIFF
L-OUT
R-OUT
STANDBY
V-TUNE
8239 124 1618.3

Small signal panel

1	D2
2	C1
C1	G2
C2	G2
C4	G1
C5	F2
C6	E1
M1	A5
M2	B5
M3	D5
M4	D5
M6	C3
M7	C3
M8	A3
M10	C4
M11	D4
M12	E3
M13	A3
M14	D3
M15	C3
M16	C2
M17	D2
M18	A4
M19	F3
M20	D1
M21	E1
M22	C1
MO1	A4
MO2	A5
MO3	A5
MS1	C2
MS2	C2
MS4	C1
1220	F1
1301	A5
1308	B5
1334	B4
1335	B4
1367	C4
1368	C4
1369	C4
1400	D5
1424	F4
1460	E4
1461	E4
1462	E4
1680	B1
1810	F4
2220	G2
2221	G2
2222	F1
2223	F1
2224	F2
2225	F2
2226	F2
2227	F2
2228	F2
2229	F1
2230	F1
2231	F2
2232	F2
2235	G2
2236	G2
2240	F2
2249	E2
2250	E2
2251	E2
2253	E1
2256	F2
2257	F2
2258	F2
2263	F2
2264	F2
2265	G2
2270	F1
2274	F1
2275	F1
2300	A4
2301	B5
2302	B5
2303	B4
2304	A5
2305	A5
2306	A5
2307	A4
2308	C5
2330	B4
2331	B4
2332	B4
2333	B4
2334	B4
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2352	B4
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2357	B4
2358	B4
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2382	A4
2383	A4
2384	A4
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2402	D5
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2428	F4
2429	F4
2438	F4
2439	F5
2440	E4
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2463	E5
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2472	E5
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2533	G5
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2538	F4
2539	G5
2540	F4
2541	G4
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2561	F3
2562	F3
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2724	D2
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2758	C2
2759	C2
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3369	C4
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3405	D4
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3805	G4
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3807	F4
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3809	F4
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3831	D3
3832	D3
3833	D3
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4313	A3
4314	A3
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4631	A3
4700	C1
4702	C1
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4727	E2
4741	D2
4744	D2
4752	C2
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5334	B4
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5381	A4
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5438	F5
5460	E5
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6220	E1
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6233	G1
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6300	A4
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6305	A5
6306	A5
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6558	E2
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6631	B3
6632	B3
6660	B1
6661	B1
6662	A2
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6664	A2
6665	A2
6666	A2
6667	A2
6714	C2
6715	C2
6725	E2
6726	D2
6742	C1
6801	G4
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6829	D3
6830	E3
6831	D3
7220	F2
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7226	E1
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7233	G1
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7271	G1
7285	E1
7357	B4
7358	B4
7367	C4
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7380	A4
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7470	D4
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7660	B1
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7704	C1
7705	D2
7706	D1
7717	C1
7718	C2
7724	E1
7725	D2
7750	C2
7760	C1
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7807	G4
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7822	E3
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9271	E2
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9312	C5
9314	C4
9315	B5
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9360	B3
9361	C4
9362	C4
9364	C5
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9372	C4
9374	D4
9380	A4
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9388	A3
9389	B3
9390	A3
9391	C3
9392	C3
9393	B3
9400	D5
9401	D4
9402	D4
9403	D3
9404	D5
9407	D5
9420	D4
9421	C5
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9423	C5
9424	D4
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9436	G4
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9461	D5
9464	E4
9472	E4
9473	F5
9474	E4
9475	E4
9479	D4
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9534	F4
9550	E2
9551	E3
9552	E3
9553	C2
9554	G4
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9574	C3
9575	E3
9576	C3
9577	C3
9578	C2
9579	C2
9580	C2
9581	E3
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9583	D3
9584	G3
9585	G3
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9591	C3
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9622	A3
9660	A2
9663	A3
9664	C1
9665	A1
9666	B1
9667	B1
9669	B2
9673	B1
9675	B1
9686	A1
9687	A1
9706	D1
9707	D1
9708	D1
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9710	D1
9723	D2
9724	E2
9725	D1
9730	D1
9737	D1
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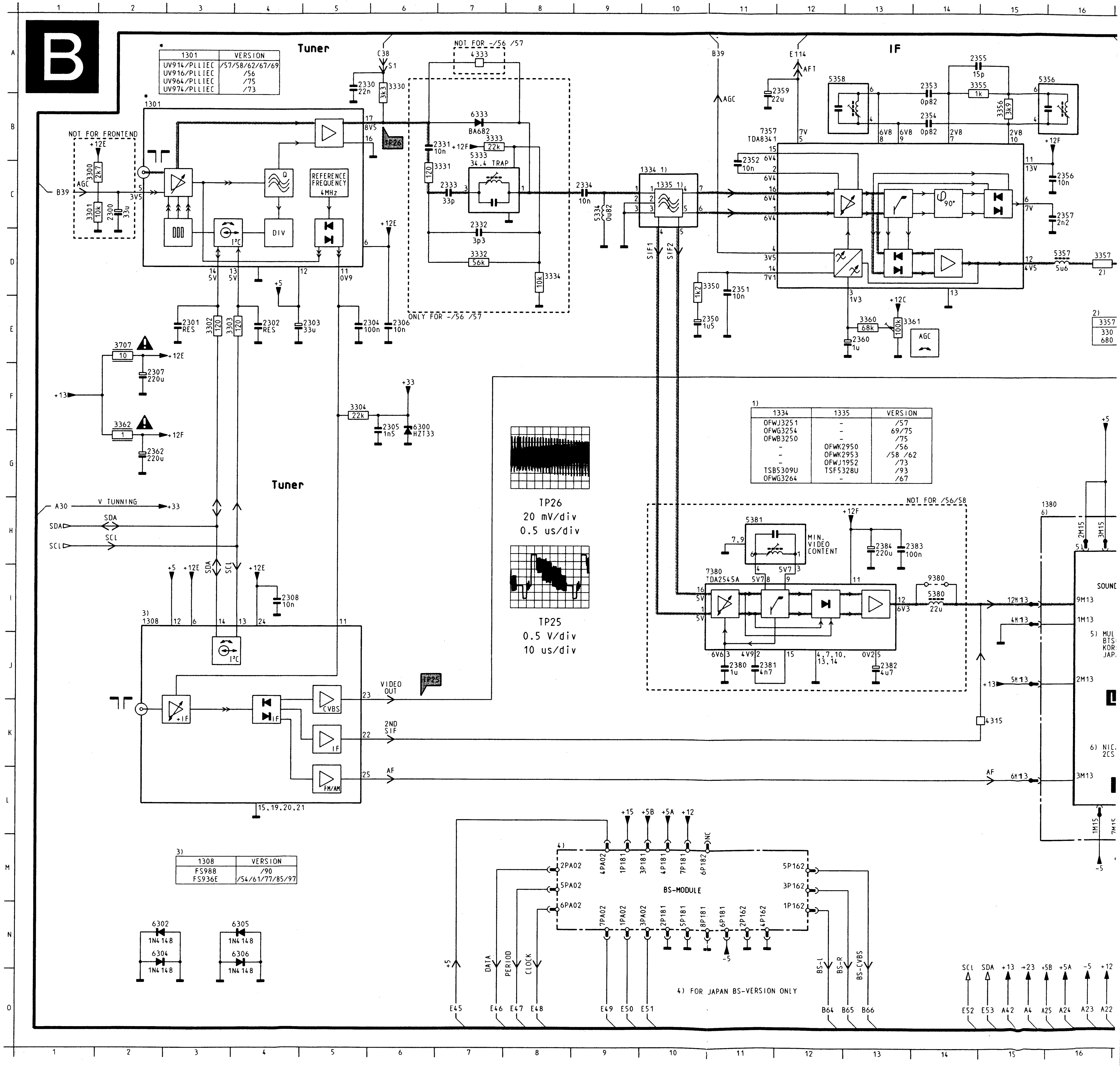
9739	D2
9741	E1
9743	E1
9810	E3
9811	D3
9814	F4

Tuner / IF



1301	VERSION
UV914/PLLIEC	/57/58/62/67/69
UV916/PLLIEC	/56
UV964/PLLIEC	/75
UV974/PLLIEC	/73

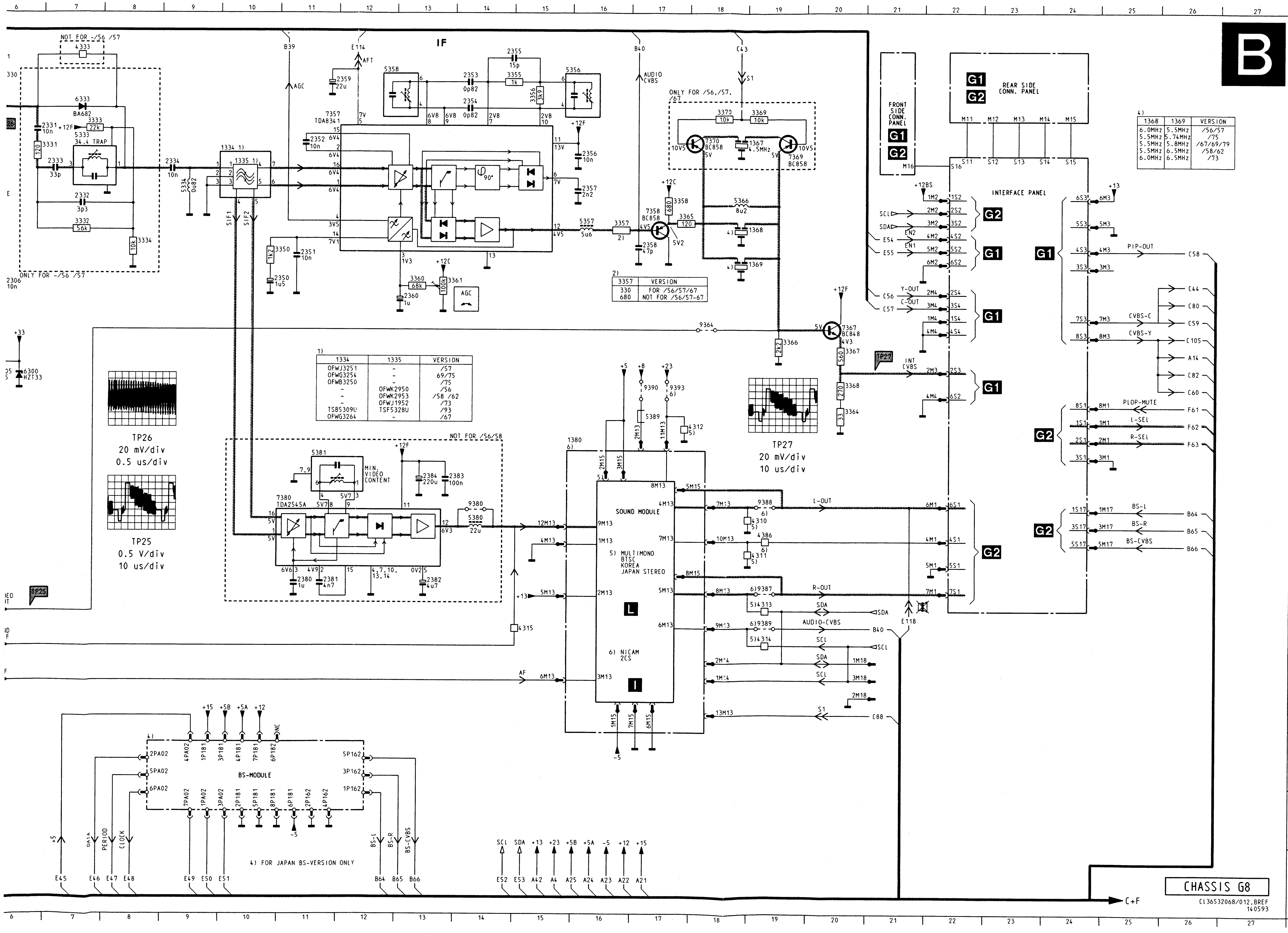
1)

1334	1335	VERSION
OFWJ3251	-	/57
OFWG3254	-	69/75
OFWB3250	-	/75
-	OFWK2950	/56
-	OFWK2953	/58 /62
-	OFWJ1952	/73
TSB5309U	TSF5328U	/93
OFWG3264	-	/67

3)

1308	VERSION
FS988	/90
FS936E	/54/61/77/85/97

Tuner / IF



B
IF
NOT FOR -/56 /57
ONLY FOR -/56 /57
B39
E114
AFT
AGC
B40
AUDIO CVBS
C43
S1
ONLY FOR /56,/57, /67
7357 TDA8341
1334 1)
1335 1)
5358
5356
2355 15p
3355 1k
2353 0p82
2354 0p82
3356 3k9
5333 34.4 TRAP
6333 BA682
3333 22k
2333 33p
2332 3p3
3332 56k
3334 10k
2334 10n
5334 0u82
SIF1
SIF2
3370 10k
3369 10k
7370 BC858
7369 BC858
1367 4.5MHz
7358 BC858
3358 680
3365 120
5366 8u2
1368
1369
5357 5u6
3357 2)
2358 47p
3350 1k2
2351 10n
2350 1u5
3360 68k
3361 100k
2360 1u
AGC
9364
7367 BC848
3366 2k2
3367 560
3368 270
3364 33
TP26
20 mV/div
0.5 us/div
TP25
0.5 V/div
10 us/div
TP27
20 mV/div
10 us/div
NOT FOR /56/58
5381
MIN. VIDEO CONTENT
7380 TDA2545A
2384 220u
2383 100n
9380
5380 22u
2380 1u
2381 4n7
2382 4u7
1380 6)
SOUND MODULE
5) MULTIMONO BTSC KOREA JAPAN STEREO
6) NICAM 2CS
9390
9393 6)
5389
4312 5)
9388 6)
4310 5)
4386 6)
4311 5)
9387 6)
4313 5)
9389 6)
4314 5)
4315
L-OUT
R-OUT
SDA
SCL
AUDIO-CVBS
E118
FRONT SIDE CONN. PANEL
REAR SIDE CONN. PANEL
G1
G2
INTERFACE PANEL
PIP-OUT
CVBS-C
CVBS-Y
INT CVBS
Y-OUT
C-OUT
PLOP-MUTE
L-SEL
R-SEL
BS-L
BS-R
BS-CVBS
BS-MODULE
4) FOR JAPAN BS-VERSION ONLY
DATA
PERIOD
CLOCK
C+F

2)

3357	VERSION
330	FOR /56/57/67
680	NOT FOR /56/57-67

1)

1334	1335	VERSION
OFWJ3251	-	/57
OFWG3254	-	69/75
OFWB3250	-	/75
-	OFWK2950	/56
-	OFWK2953	/58 /62
-	OFWJ1952	/73
TSB5309U	TSF5328U	/93
OFWG3264	-	/67

4)

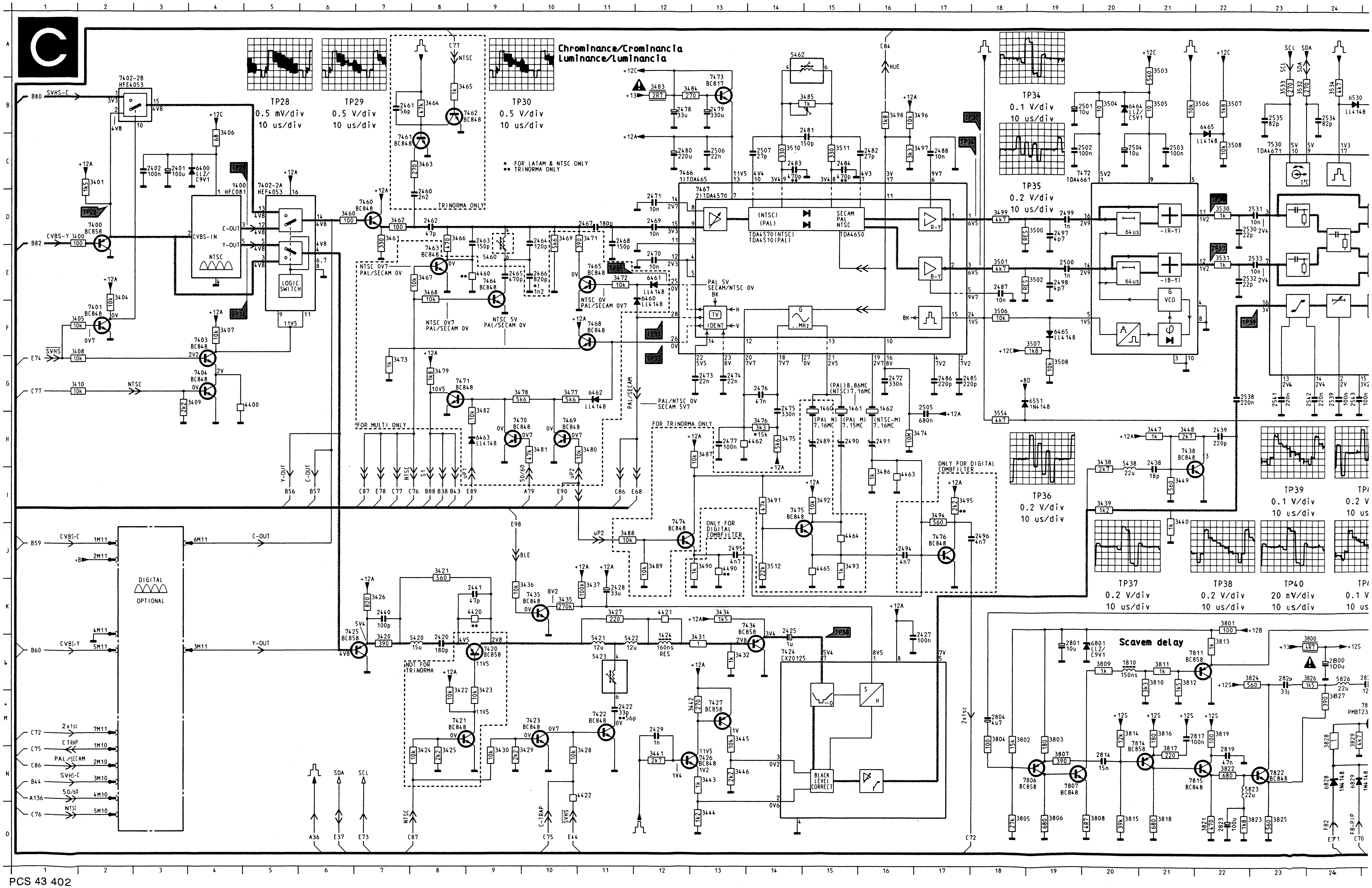
1368	1369	VERSION
6.0MHz	5.5MHz	/56/57
5.5MHz	5.74MHz	/75
5.5MHz	5.8MHz	/67/69/79
5.5MHz	6.5MHz	/58/62
6.0MHz	6.5MHz	/73

CHASSIS G8

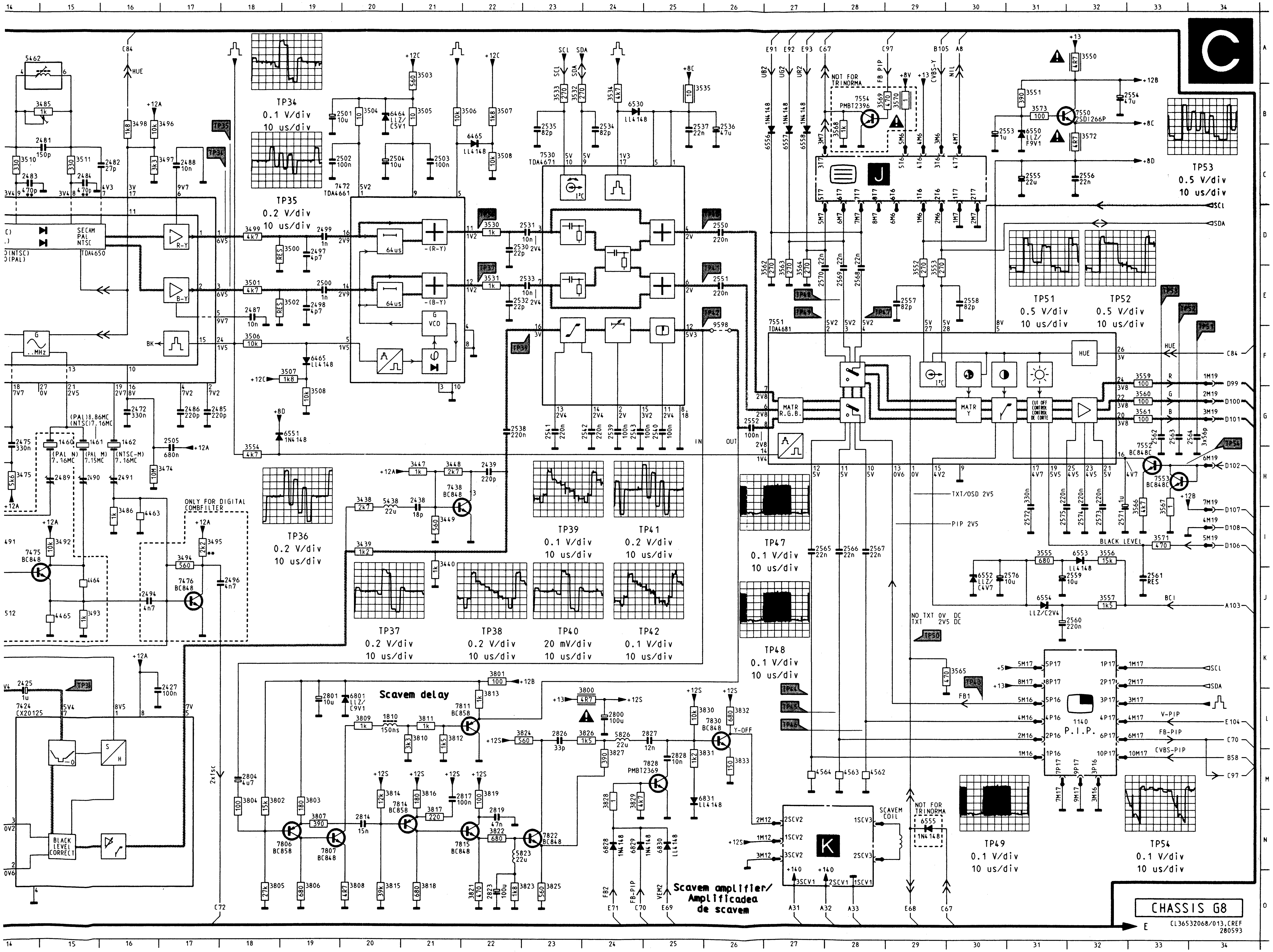
CL36532068/012.BREF
140593

TP25	J 6
TP26	B 6
TP27	F21
1301	B 2
1308	I 2
1334	C 9
1335	C10
1367	C18
1368	D18
1369	E18
1380	H15
2300	C 2
2301	E 3
2302	E 4
2303	E 5
2304	E 5
2305	F 6
2306	E 6
2307	F 2
2308	I 4
2330	A 5
2331	B 6
2332	C 7
2333	C 7
2334	C 9
2350	E10
2351	D11
2352	C11
2353	A14
2354	B14
2355	A14
2356	C16
2357	C16
2358	D17
2359	B11
2360	E13
2362	G 2
2380	J11
2381	J11
2382	J13
2383	H13
2384	H13
3300	C 1
3301	C 1
3302	E 3
3303	E 3
3304	F 5
3330	A 6
3331	C 6
3332	D 7
3333	B 7
3334	D 8
3350	D10
3355	A14
3356	B15
3357	D16
3358	C17
3360	E13
3361	E13
3362	F 2
3364	G20
3365	D17
3366	F19
3367	F20
3368	G20
3369	B19
3370	B18
3707	E 2
4310	I19
4311	J19
4312	G17
4313	J19
4314	K19
4315	K15
4333	A 7
4386	I19
5333	B 7
5334	C 9
5356	A15
5357	D16
5358	A12
5366	D18
5380	I14
5381	H11
5389	G17
6300	F 6
6302	N 2
6304	N 2
6305	N 4
6306	N 4
6333	B 7
7357	B12
7358	D17
7367	F20
7369	C19
7370	C18
7380	I10
9364	F18
9380	I14
9387	J19
9388	I19
9389	K19
9390	G17
9393	G17

Chroma

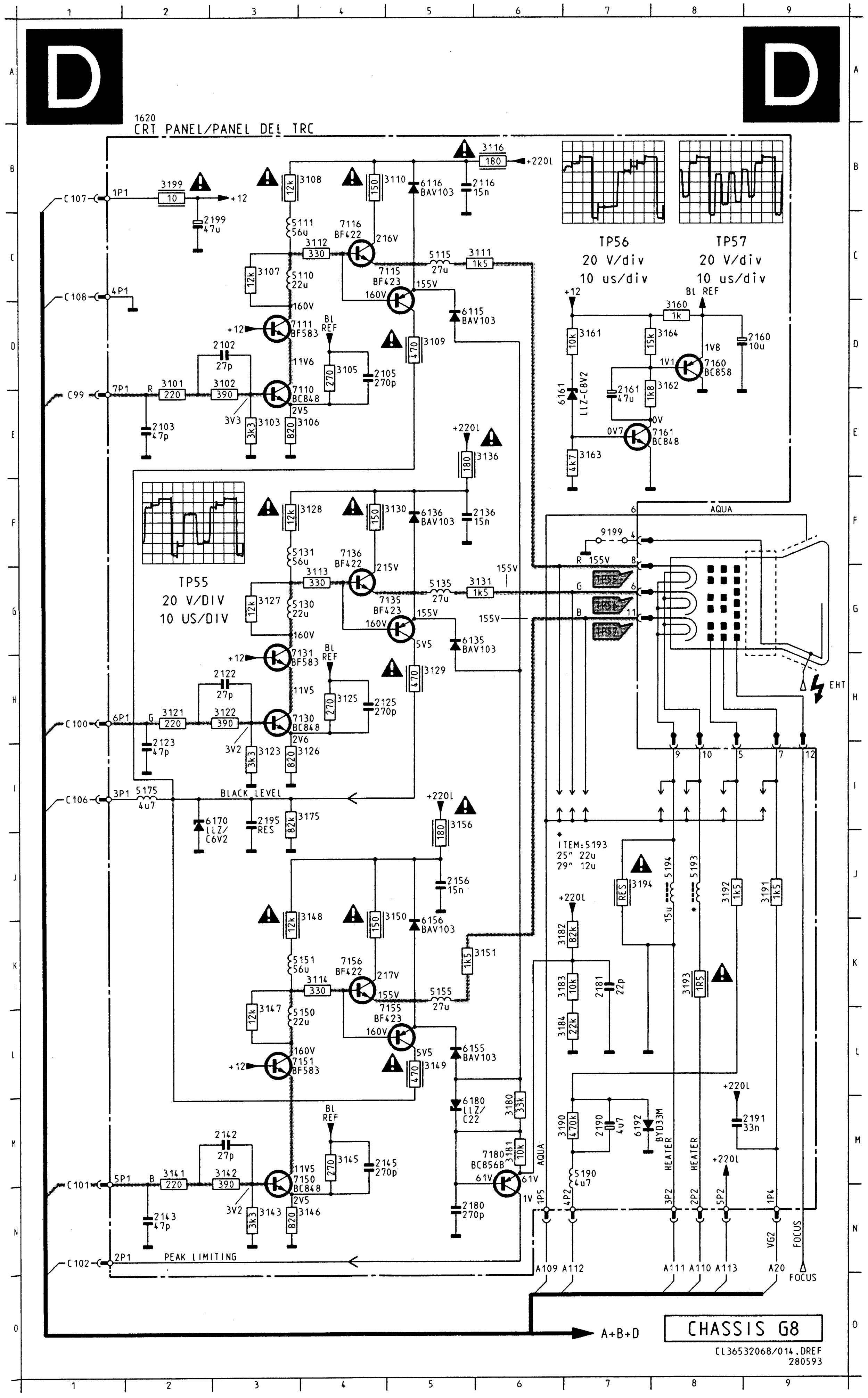

C
Chrominance/Crominancia
Luminance/Luminancia
TP28
0.5 mV/div
10 us/div
TP29
0.5 V/div
10 us/div
TP30
0.5 V/div
10 us/div
TP34
0.1 V/div
10 us/div
TP35
0.2 V/div
10 us/div
TP36
0.2 V/div
10 us/div
TP37
0.2 V/div
10 us/div
TP38
0.2 V/div
10 us/div
TP39
0.1 V/div
10 us/div
TP40
20 mV/div
10 us/div
* FOR LATAM & NTSC ONLY
** TRINORMA ONLY
TRINORMA ONLY
FOR MULTI ONLY
FOR TRINORMA ONLY
ONLY FOR DIGITAL COMBFILTER
NOT FOR TRINORMA
DIGITAL
OPTIONAL
Scavem delay
7402-2B HEF4053
7402-2A HEF4053
1400 HFC081
CVBS-IN
NTSC
C-OUT
Y-OUT
LOGIC SWITCH
7466 1) TDA4650
7467 2) TDA4570
(NTSC) (PAL)
SECAM PAL NTSC
TDA4570 (NTSC)
TDA4510 (PAL)
TDA4650
PAL 5V
SECAM/NTSC 0V
IDENT
BK
R-Y
B-Y
7472 TDA4661
64us
-(R-Y)
-(B-Y)
VCO
7530 TDA4671
7424 CX20125
BLACK LEVEL CORRECT
S H
NTSC 0V7
PAL/SECAM 0V
NTSC 5V
PAL/SECAM 0V
PAL/NTSC 0V
SECAM 5V7
(PAL) 8.86MC
(NTSC) 7.16MC
(PAL N) 7.16MC
(PAL M) 7.15MC
(NTSC-M) 7.16MC
HUE
SVHS-C
CVBS-Y
SVHS
NTSC
Y-OUT
C-OUT
B80
B82
E74
C77
B56
B57
C87
E78
C77
C76
B88
B38
B43
E89
A79
E90
C86
E68
E98
BLE
B59
B60
C72
C75
C86
B44
A136
C76
A36
E37
E73
C87
C75
E44
C72
E71
C70
SDA
SCL
C-TRAP
PAL/SECAM
50/60
2xfsc
FB2
FB-PIP

Chroma

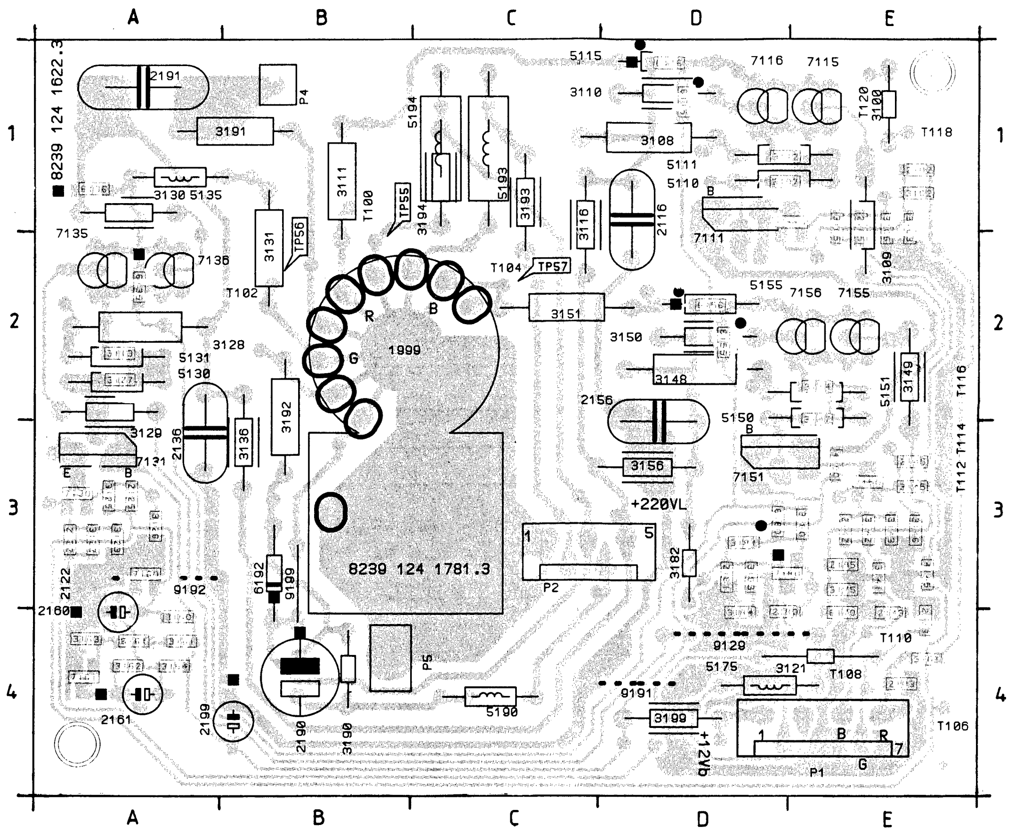

C
TDA4650
SECAM PAL NTSC
7472 TDA4661
7530 TDA4671
7551 TDA4681
J
K
1140 P.I.P.
MATR R.G.B.
MATR Y
CUT OFF CONTROL
HUE
BLACK LEVEL
TXT/OSD 2V5
PIP 2V5
NOT FOR TRINORMA
ONLY FOR DIGITAL COMBFILTER
NO TXT 0V DC
TXT 2V5 DC
7424 CX20125
BLACK LEVEL CORRECT
Scavem delay
Scavem amplifier/
Amplificadea de scavem
SCAVEM COIL
TP34 0.1 V/div 10 us/div
TP35 0.2 V/div 10 us/div
TP36 0.2 V/div 10 us/div
TP37 0.2 V/div 10 us/div
TP38 0.2 V/div 10 us/div
TP39 0.1 V/div 10 us/div
TP40 20 mV/div 10 us/div
TP41 0.2 V/div 10 us/div
TP42 0.1 V/div 10 us/div
TP47 0.1 V/div 10 us/div
TP48 0.1 V/div 10 us/div
TP49 0.1 V/div 10 us/div
TP51 0.5 V/div 10 us/div
TP52 0.5 V/div 10 us/div
TP53 0.5 V/div 10 us/div
TP54 0.1 V/div 10 us/div
CHASSIS G8
CL36532068/013.CREF
280593

TP28	D 2	2560	J31	3510	C14	7404	G 4
TP29	C 4	2561	J33	3511	C15	7420	L 9
TP30	F 4	2562	G33	3512	J14	7421	M 8
TP31	E11	2563	G33	3530	D22	7422	M11
TP32	F12	2564	G34	3531	E22	7423	M10
TP33	G12	2565	I27	3532	B23	7424	L14
TP34	C17	2566	I28	3533	B23	7425	L 7
TP35	B18	2567	I28	3534	B24	7426	N13
TP36	D22	2568	E28	3535	B25	7427	M13
TP37	E22	2569	E28	3550	A32	7434	K14
TP38	K15	2570	E27	3551	B31	7435	K10
TP39	F22	2571	I32	3552	E29	7438	H22
TP40	D26	2572	I31	3553	E29	7460	D 7
TP41	E26	2573	I32	3554	H18	7461	C 8
TP42	E26	2574	I32	3555	I31	7462	B 8
TP43	K30	2575	I31	3556	I32	7463	E 8
TP44	L27	2576	J30	3557	J32	7464	E 9
TP45	L27	2800	L24	3559	F33	7465	E11
TP46	L27	2801	L19	3560	G33	7466	C12
TP47	E28	2804	M18	3561	G33	7467	D13
TP48	E27	2814	N20	3562	E27	7468	F11
TP49	E27	2817	M21	3563	E27	7469	H10
TP50	K29	2819	N22	3564	E27	7470	H 9
TP51	F34	2823	O22	3565	K30	7471	G 8
TP52	E33	2826	L23	3566	I33	7472	C20
TP53	E33	2827	L25	3567	I33	7473	B13
TP54	G34	2828	M25	3568	B28	7474	J12
1140	L32	3400	D 1	3569	B28	7475	I15
1400	C 5	3401	C 2	3570	B29	7476	J17
1424	L12	3404	E 2	3571	I33	7530	C23
1460	G15	3405	F 1	3572	B32	7550	B32
1461	G15	3406	B 4	3573	B31	7551	E27
1462	G16	3407	F 4	3800	L24	7552	H33
1810	L20	3408	F 1	3801	K22	7553	H33
2401	C 3	3409	G 3	3802	M18	7554	B28
2402	C 3	3410	G 1	3803	M19	7806	N19
2420	L 8	3420	L 7	3804	M18	7807	N19
2422	M11	3421	J 8	3805	O18	7811	L2
2425	K14	3422	L 8	3806	O19	7814	M2
2427	L17	3423	L 9	3807	N19	7815	N2
2428	K11	3424	N 8	3808	O20	7822	N23
2429	M12	3425	N 8	3809	L20	7828	M25
2438	H21	3426	K 7	3810	L21	7830	L26
2439	H22	3427	K11	3811	L21	9598	F26
2440	K 7	3428	N10	3812	L21		
2441	K 9	3429	N 9	3813	L22		
2460	D 8	3430	N 9	3814	M20		
2461	B 7	3431	L13	3815	O20		
2462	D 8	3432	L13	3816	M21		
2463	D 9	3434	K13	3817	N21		
2464	D10	3435	K10	3818	O21		
2465	E 9	3436	K 9	3819	M22		
2466	E10	3437	K11	3821	O22		
2467	D11	3438	H20	3822	N22		
2468	D11	3439	I20	3823	O22		
2469	D12	3440	I21	3824	L23		
2470	E12	3441	N12	3825	O23		
2471	D12	3442	M13	3826	L24		
2472	G16	3443	N13	3827	M24		
2473	G13	3444	O13	3828	M24		
2474	G13	3445	M13	3829	M24		
2475	G14	3446	N13	3830	L25		
2476	G14	3447	H21	3831	M25		
2477	H13	3448	H21	3832	L26		
2478	B12	3449	I21	3833	M26		
2479	B13	3460	D 6	4400	G 5		
2480	C12	3461	D 7	4420	K 9		
2481	B15	3462	D 7	4421	K12		
2482	C16	3463	C 8	4422	N10		
2483	C14	3464	B 8	4460	E 9		
2484	C15	3465	B 8	4462	H14		
2485	G17	3466	D 8	4463	I16		
2486	G17	3467	E 8	4464	J15		
2487	E18	3468	E 8	4465	J15		
2488	C17	3469	D10	4490	J13		
2489	H15	3471	D11	4562	M28		
2490	H15	3472	E11	4563	M28		
2491	H16	3473	G 7	4564	M27		
2494	J16	3474	H16	5420	L 8		
2495	J13	3475	H14	5421	L11		
2496	J18	3476	H14	5422	L11		
2497	D19	3477	G10	5423	L11		
2498	E19	3478	G 9	5438	H20		
2499	D19	3479	G 8	5460	E 9		
2500	E19	3480	H11	5462	A14		
2501	B19	3481	H10	5462	* *		
2502	C19	3482	G 9	5823	N22		
2503	C21	3483	B12	5826	L24		
2504	C20	3484	B12	6400	C 4		
2505	G17	3485	B15	6460	F12		
2506	C13	3486	I16	6461	E12		
2507	C14	3487	H13	6462	G11		
2530	D22	3488	J11	6463	H 9		
2531	D23	3489	J12	6464	B20		
2532	E22	3490	J13	6465	F19		
2533	E23	3491	I14	6465	B22		
2534	B24	3492	I15	6530	B24		
2535	B23	3493	J15	6550	B31		
2536	B26	3494	I17	6551	G19		
2537	B25	3495	I17	6552	J30		
2538	G22	3496	B16	6553	I32		
2539	G24	3497	C16	6554	J31		
2540	G25	3498	B16	6555	N29		
2541	G23	3499	D18	6556	B27		
2542	G24	3500	D19	6557	B27		
2543	G24	3501	E18	6558	B27		
2550	D26	3502	E19	6801	L20		
2551	E26	3503	A21	6828	N24		
2552	G26	3504	B20	6829	N24		
2553	B30	3505	B21	6830	N25		
2554	B32	3506	F18	6831	M25		
2555	C31	3506	B21	7400	D 2		
2556	C32	3507	F19	7401	F 2		
2557	E29	3507	B22	7402	B 2		
2558	E30	3508	G19	7402	C 5		
2559	J31	3508	C22	7403	F 4		

CRT



TP55	G 7
TP56	G 7
TP57	G 7
1620	A 2
2102	D 3
2103	E 2
2105	D 4
2116	B 5
2122	H 3
2123	I 2
2125	H 4
2136	F 5
2142	M 3
2143	N 2
2145	M 4
2156	J 5
2160	D 9
2161	E 7
2180	N 5
2181	K 7
2190	M 7
2191	M 8
2195	I 3
2199	C 2
3101	D 2
3102	D 3
3103	E 3
3105	D 4
3106	E 3
3107	C 3
3108	B 3
3109	D 5
3110	B 4
3111	C 6
3112	C 4
3113	G 4
3114	K 4
3116	B 6
3121	H 2
3122	H 3
3123	I 3
3125	H 4
3126	I 3
3127	G 3
3128	F 3
3129	H 5
3130	F 4
3131	G 6
3136	E 5
3141	M 2
3142	M 3
3143	N 3
3145	M 4
3146	N 3
3147	K 3
3148	J 3
3149	L 5
3150	J 4
3151	K 5
3156	I 5
3160	D 8
3161	D 7
3162	D 8
3163	E 7
3164	D 8
3175	I 3
3180	M 6
3181	M 6
3182	K 6
3183	K 6
3184	L 6
3190	M 6
3191	J 9
3192	J 8
3193	K 8
3194	J 7
3199	B 2
5110	C 3
5111	C 3
5115	C 5
5130	G 3
5131	F 3
5135	G 5
5150	L 3
5151	K 3
5155	K 5
5175	I 2
5190	M 7
5193	J 8
5194	J 8
6115	D 5
6116	B 5
6135	G 5
6136	F 5
6155	L 5
6156	K 5
6161	E 6
6170	I 2
6180	M 5
6192	M 7
7110	E 3
7111	D 3
7115	C 5
7116	C 4
7130	H 3
7131	H 3
7135	G 5
7136	F 4
7150	M 3
7151	L 3
7155	L 5
7156	K 4
7160	D 8
7161	E 7
7180	M 6
9199	F 7



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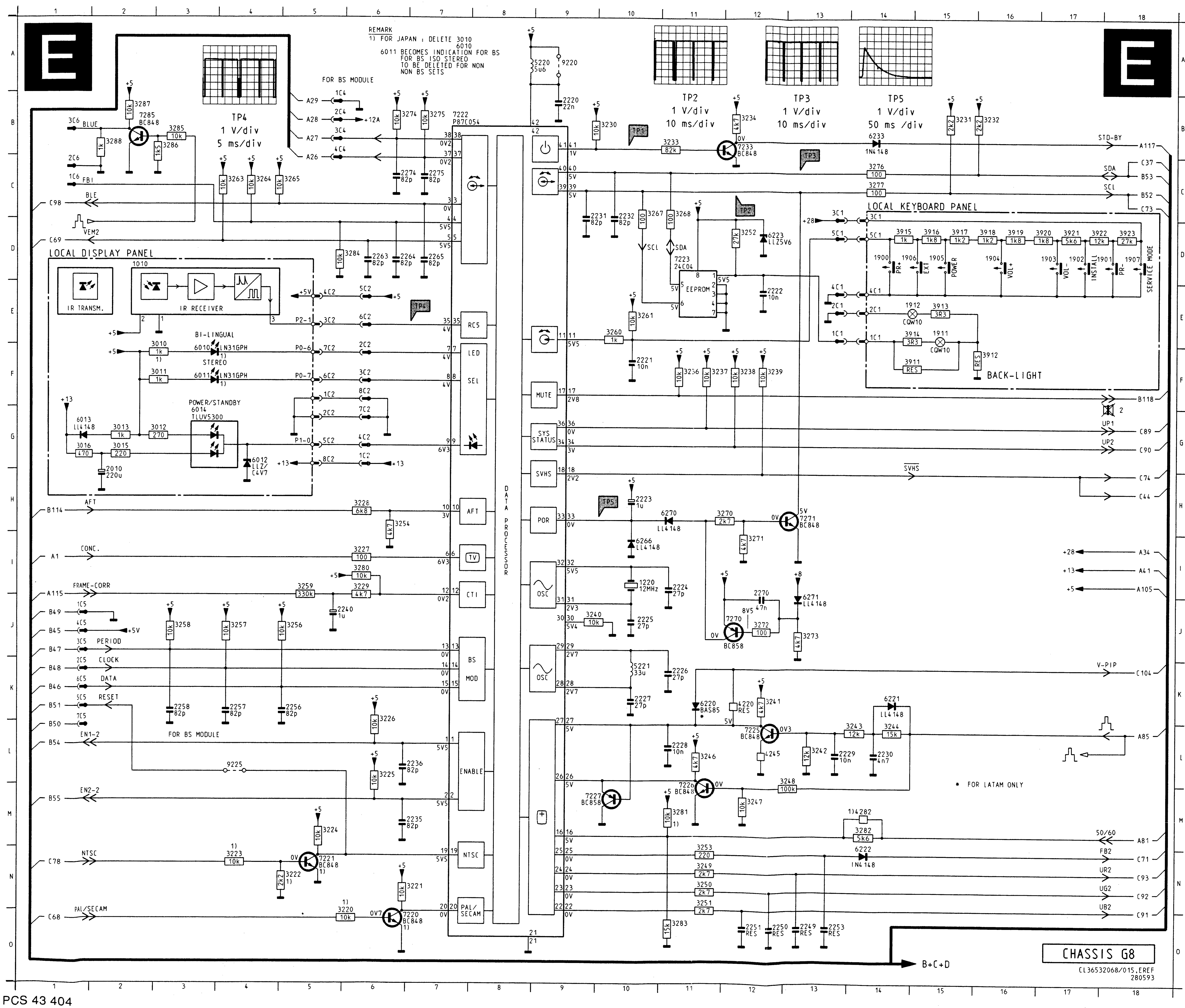
P4	B1	2156	D2	3105	E1	3123	A3	3146	E3	3180	E3	5110	E1	6115	D1	7116	D1	9191	D4
P5	B4	2160	A3	3106	E1	3125	A3	3147	E2	3181	D3	5111	E1	6116	D1	7130	A3	9192	A3
1999	C2	2161	A4	3107	E1	3126	A3	3148	D2	3182	D3	5115	D1	6135	A2	7131	A3	9199	B3
2102	E1	2180	E3	3108	D1	3127	A2	3149	E2	3183	D3	5130	A2	6136	A1	7135	A2		
2103	E4	2181	D3	3109	E1	3128	A2	3150	D2	3184	D3	5131	A2	6155	D2	7136	A2		
2105	E1	2190	B4	3110	D1	3129	A2	3151	C2	3190	B4	5135	A1	6156	D2	7150	E3		
2116	D1	2191	A1	3111	B1	3130	A1	3156	D3	3191	B1	5150	E2	6161	A4	7151	E3		
2123	E4	2195	E3	3112	E1	3131	B2	3160	A4	3192	B2	5151	E2	6170	E3	7155	E2		
2125	A3	2199	B4	3113	A2	3136	B3	3161	A4	3193	C1	5155	D2	6180	E3	7156	E2		
2136	A3	3100	E1	3114	E2	3141	E3	3162	A4	3194	C1	5175	D4	6192	B3	7160	A3		
2142	E3	3101	E4	3116	C1	3142	E3	3163	A4	3199	D4	5190	C4	7110	E1	7161	A4		
2143	E3	3102	E1	3121	E4	3143	E3	3164	A4	4145	E3	5193	C1	7111	D1	7180	E3		

LIST OF ABBREVIATIONS

µC	Microcomputer
2CS	Two Carrier System (stereo sound system with 2 different carrier for L+R and +2R)
3.58	Signal with 3.58 MHz difference between picture and colour carrier
4.43	Signal with 4.43 MHz difference between picture and colour carrier
AFC	Automatic Frequency Control
AFT	Automatic Fine Tuning
AGC	Automatic Gain Control
AV	Audio and Video inputs rear cinches ("low" for external CVBS, "high" for internal CVBS)
AVS	Automatic Voltage Switching
BG/I/DK/MN	Sound systems BG/I/DK/MN indicate frequency distance between sound and picture carrier
BCI	Beam Current Info
BS	Broadcasting satellite
BTSC	Broadcast Television System Committee (L-R and L+R)
C	Chrominance part of the video signal
CRT	Picture tube
CTI	Colour Transient Improvement
CVBS	Colour Video Blanking Sound
DAC	Digital Analogue Converter
DC	Direct Current
EEPROM	Electrical Erasable Programmable Read Only Memory
EHT	Extra High Tension (25 kV)
EXT	External inputs (audio and video cinches)
FM	Frequency Modulation
HOR	Horizontal
HUE	Tint adjustment for NTSC system
I/O-expander	Input/Output expander
I-deg	Degaussing current
I^2C	Digital control bus of the microcomputer
IDENT	Identification signal from synchronisation IC
IF	Intermediate Frequency
LED	Light Emitting Diode
LOT	Line Output Transformer
LSP	Large Signal Panel
MHz	Mega Hertz
MPX	Multiplexed BTSC signal
NICAM	Near Instantaneous Companding Audio Multiplex
NICAM_AVAIL	Status signal; pulled "low" by NICAM panel if NICAM available
NIL	Non Interlace
NTSC	National Television System Committee
OSD	On Screen Display (in diagrams Display On Screen)
PAL	Phase Alternating Line
PIP	Picture In Picture
PLL	Phase Locked Loop
POR	Power On Reset
PP	Personal Preference
PTC	Positive Temperature Coefficient (increasing resistance at increasing temperature)
PWM	Pulse width Modulation
QPSK	Quadrature Phase Shift Keying
QSS	Quasi Split Sound (sound IF split from picture IF via QSS detector, so not after IF detector)
RAM	Random Access Memory
RC5	Remote Control 5 system
REF	Reference
RGB	Red Green Blue
ROM	Random Access Memory
SAP	Second Audio Program
SAP_AVAIL	Status signal; pulled "low" by BTSC panel is SAP is available
SAW	Surface Acoustic Wave
SCART	Large (orange or blue) Euroconnector
SCL	Clock of the I^2C-bus
SDA	Data of the I^2C-bus
SDM	Service Default Mode
SECAM	Sequential Couleur à Memoire
SM	Service Mode
SMPS	Switched Mode Power Supply (frequency and duty cycle controlled)
SSP	Small Signal Panel
SVHS	Super Video Home System
SYNC	Synchronisation
TINT	PWM control signal for hue control
TP1	Test Point 1
TRANS_ID	Status signal; "high" for hor. sync. present so video identification
TXT	Teletext
U	R-Y
V	B-Y
VERT	Vertical
VG2	Voltage on Grid 2 of the picture tube
Y	Luminance part of the video signal

Controls

CHASSIS G8 **12**


E
TP4
1 V/div
5 ms/div
TP2
1 V/div
10 ms/div
TP3
1 V/div
10 ms/div
TP5
1 V/div
50 ms /div
FOR BS MODULE
LOCAL DISPLAY PANEL
1010
IR TRANSM.
IR RECEIVER
BI-LINGUAL
6010 LN31GPH
STEREO
6011 LN31GPH
POWER/STANDBY
6014
TLUV5300
6012 LLZ/C4V7
LOCAL KEYBOARD PANEL
PR+
EXT
POWER
VOL+
VOL-
INSTALL
PR-
SERVICE MODE
BACK-LIGHT
7222 P87C054
DATA PROCESSOR
RC5
LED
SEL
MUTE
SYS STATUS
SVHS
AFT
POR
TV
CTI
OSC
BS MOD
ENABLE
NTSC
PAL/SECAM
7223 24C04 EEPROM
1220 12MHz
7285 BC848
7233 BC848
7271 BC848
7270 BC858
7225 BC848
7226 BC848
7227 BC858
7221 BC848
7220 BC848
STD-BY
SDA
SCL
SVHS
V-PIP
50/60
FB2
UR2
UG2
UB2
AFT
CONC.
FRAME-CORR
PERIOD
CLOCK
DATA
RESET
EN1-2
EN2-2
NTSC
PAL/SECAM
BLUE
FBI
BLE
VEM2
UP1
UP2
A117
C37
B53
B52
C73
B118
C89
C90
C74
C44
A34
A41
A105
C104
A85
A81
C71
C93
C92
C91
C98
C69
B114
A1
A115
B49
B45
B47
B48
B46
B51
B50
B54
B55
C78
C68
A29
A28
A27
A26
B+C+D
CHASSIS G8
CL36532068/015.EREF
280593

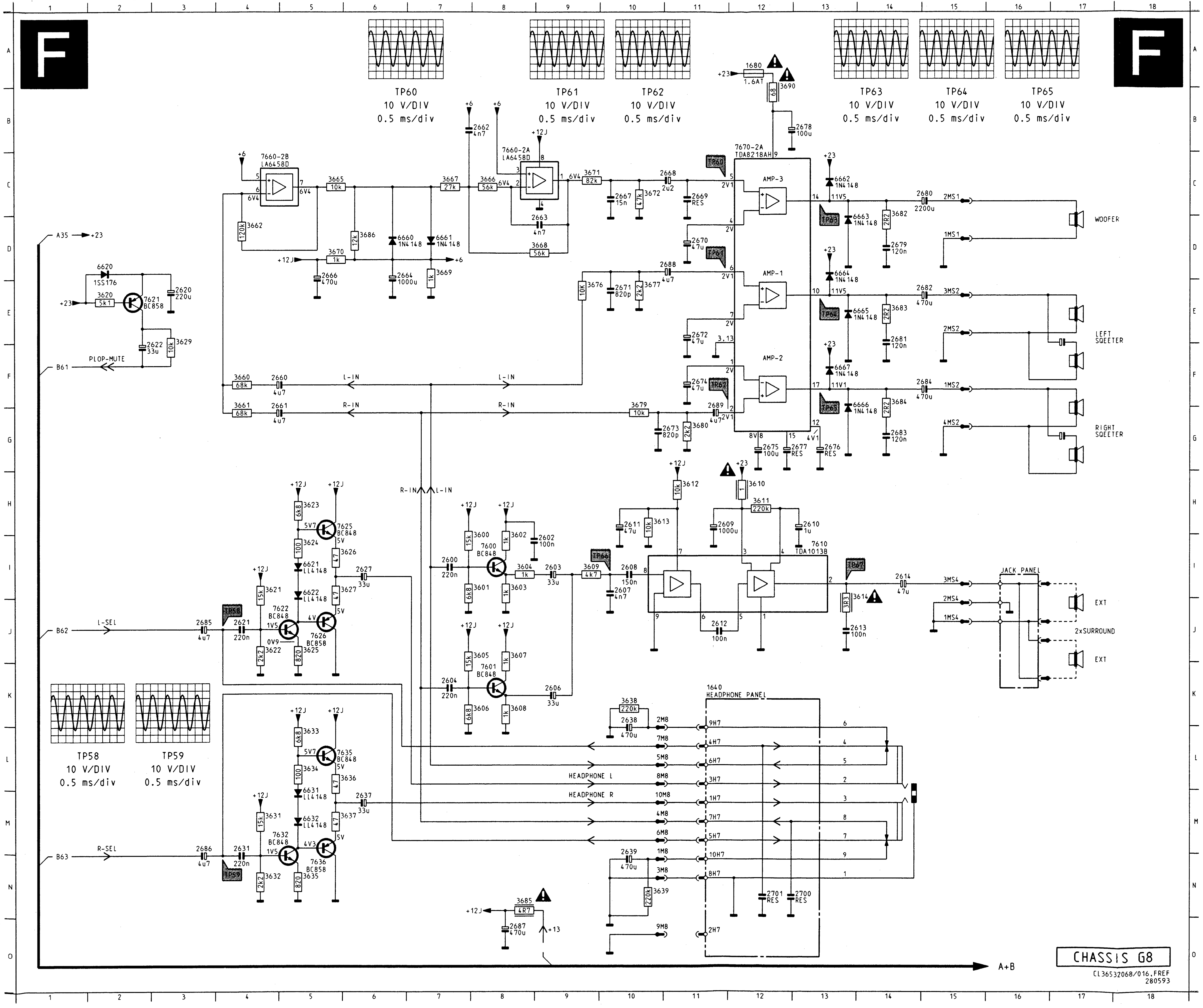
REMARK
1) FOR JAPAN : DELETE 3010
6010
6011 BECOMES INDICATION FOR BS
FOR BS ISO STEREO
TO BE DELETED FOR NON
NON BS SETS

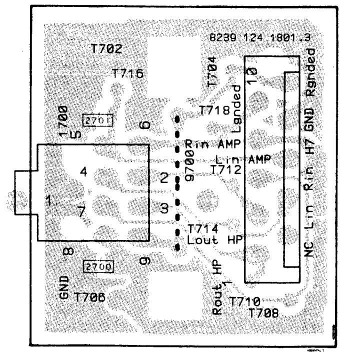
• FOR LATAM ONLY

TP1	B10	3913	E15
TP2	C12	3914	E14
TP3	B13	3915	D14
TP4	E 7	3916	D15
TP5	H10	3917	D15
1010	D 2	3918	D16
1220	I10	3919	D16
1900	D14	3920	D17
1901	D18	3921	D17
1902	D17	3922	D17
1903	D17	3923	D18
1904	D16	4220	K12
1905	D15	4245	L12
1906	D15	4282	M14
1907	D18	5220	A 8
1911	E15	5221	K10
1912	E14	6010	F 3
2010	H 2	6011	F 3
2220	B 9	6012	G 4
2221	F10	6013	G 1
2222	E12	6014	G 3
2223	H10	6220	K11
2224	I11	6221	K14
2225	J10	6222	N14
2226	K11	6223	D12
2227	K10	6233	B14
2228	L11	6266	I10
2229	L13	6270	H11
2230	L14	6271	J13
2231	D 9	7220	O 6
2232	D10	7221	N 5
2235	M 7	7222	B 7
2236	L 7	7223	D11
2240	J 5	7225	L12
2249	O13	7226	M11
2250	O12	7227	M10
2251	O12	7233	B12
2253	O13	7270	J12
2256	K 5	7271	H13
2257	K 4	7285	B 2
2258	K 3	9220	A 9
2263	D 6	9225	L 4
2264	D 6		
2265	D 7		
2270	I12		
2274	C 6		
2275	C 7		
3010	F 3		
3011	F 3		
3012	G 3		
3013	G 2		
3015	G 2		
3016	G 1		
3220	O 6		
3221	N 7		
3222	N 5		
3223	N 4		
3224	M 5		
3225	L 6		
3226	K 6		
3227	I 6		
3228	H 6		
3229	I 6		
3230	B10		
3231	B15		
3232	B16		
3233	B11		
3234	B12		
3236	F11		
3237	F11		
3238	F12		
3239	F12		
3240	J 9		
3241	K12		
3242	L13		
3243	L14		
3244	L14		
3246	L11		
3247	M12		
3248	L13		
3249	N11		
3250	N11		
3251	N11		
3252	D12		
3253	N11		
3254	H 6		
3256	J 5		
3257	J 4		
3258	J 3		
3259	I 5		
3260	E10		
3261	E10		
3263	C 4		
3264	C 4		
3265	C 5		
3267	C10		
3268	C11		
3270	H12		
3271	I12		
3272	J12		
3273	J13		
3274	B 6		
3275	B 7		
3276	C14		
3277	C14		
3280	I 6		
3281	M11		
3282	M14		
3283	O11		
3284	D 5		
3285	B 3		
3286	B 3		
3287	B 2		
3288	B 2		
3911	F14		
3912	F16		

Sound / Headphone connection

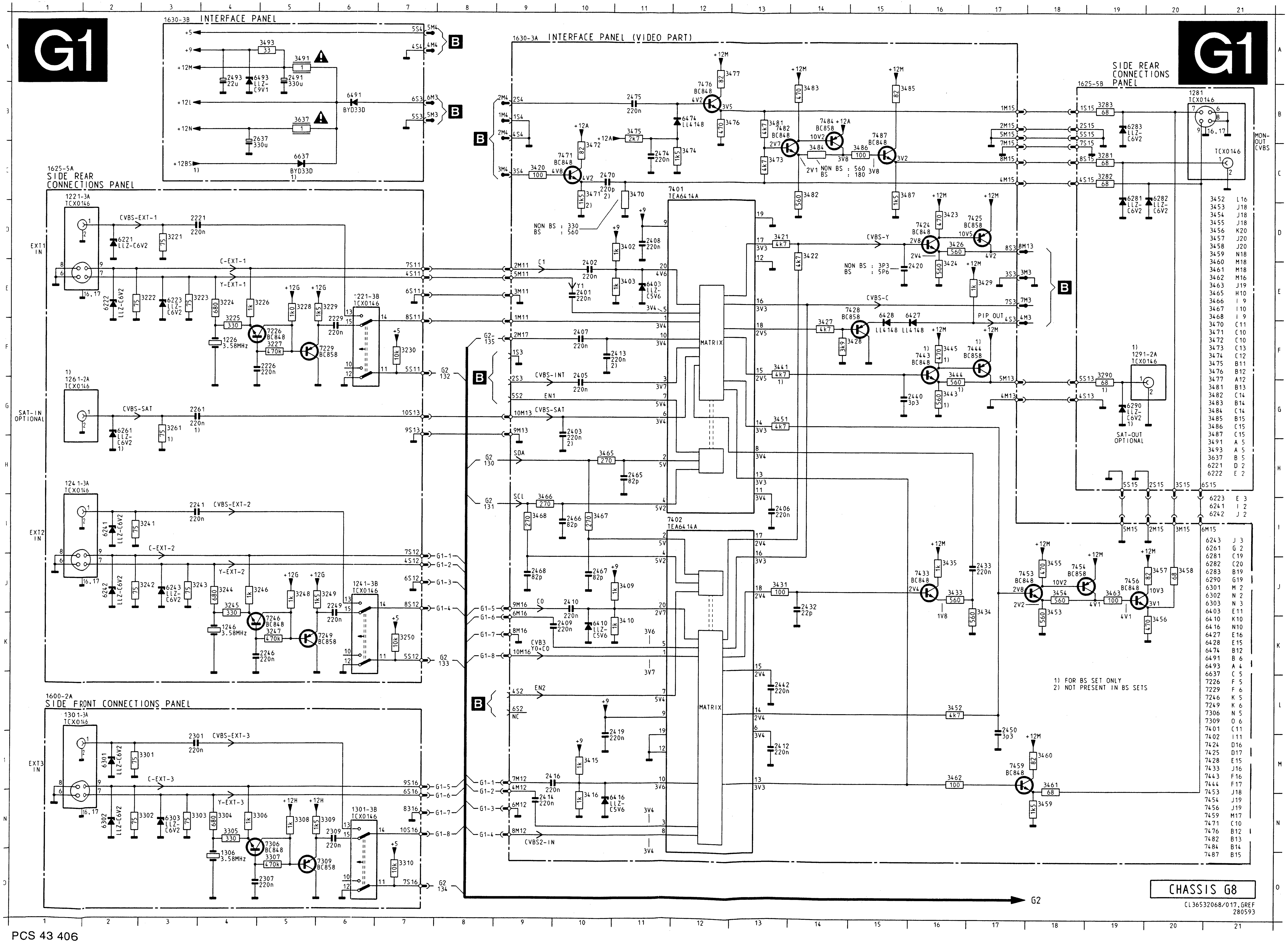
CHASSIS G8 **13**


F
TP60 10 V/DIV 0.5 ms/div
TP61 10 V/DIV 0.5 ms/div
TP62 10 V/DIV 0.5 ms/div
TP63 10 V/DIV 0.5 ms/div
TP64 10 V/DIV 0.5 ms/div
TP65 10 V/DIV 0.5 ms/div
TP58 10 V/DIV 0.5 ms/div
TP59 10 V/DIV 0.5 ms/div
7660-2B LA6458D
7660-2A LA6458D
7670-2A TDA8218AH
AMP-3
AMP-1
AMP-2
7610 TDA1013B
1680 1.6AT
WOOFER
LEFT SQEETER
RIGHT SQEETER
JACK PANEL
EXT
2xSURROUND
1640 HEADPHONE PANEL
HEADPHONE L
HEADPHONE R
L-IN
R-IN
L-SEL
R-SEL
PLOP-MUTE
A35
B61
B62
B63
A+B
7621 BC858
7622 BC848
7626 BC858
7625 BC848
7600 BC848
7601 BC848
7632 BC848
7636 BC858
7635 BC848
CHASSIS G8
CL36532068/016.FREF
280593


8239 124 1001.3
T702
T715
T704 Landed
T718
Rin AMP
Lin AMP
T712
T714 Lout HP
Rout HP
GND
T706
T710
T708
NC Lin Rin H7 GND Rgnded

TP58	J 4	3625	J 5
TP59	N 4	3626	I 5
TP60	C11	3627	I 5
TP61	D11	3629	E 3
TP62	F11	3631	M 4
TP63	D13	3632	N 4
TP64	E13	3633	L 5
TP65	G13	3634	L 5
TP66	I10	3635	N 5
TP67	I13	3636	L 5
1640	K11	3637	M 5
1680	A12	3638	K10
2600	I 7	3639	N10
2602	I 9	3660	F 4
2603	I 9	3661	G 4
2604	K 7	3662	D 4
2606	K 9	3665	C 5
2607	I10	3666	C 8
2608	I10	3667	C 7
2609	H11	3668	D 9
2610	H13	3669	D 7
2611	H10	3670	D 5
2612	J11	3671	C 9
2613	J13	3672	C10
2614	I14	3676	E 9
2620	E 3	3677	E10
2621	J 4	3679	G10
2622	F 2	3680	G11
2627	I 6	3682	C14
2631	M 4	3683	E14
2637	M 6	3684	F14
2638	K10	3685	N 8
2639	N10	3686	D 6
2660	F 4	3690	A12
2661	G 4	6620	D 2
2662	B 8	6621	I 5
2663	D 9	6622	I 5
2664	D 6	6631	M 5
2666	D 5	6632	M 5
2667	C10	6660	D 6
2668	C11	6661	D 7
2669	C11	6662	C13
2670	D11	6663	D13
2671	E10	6664	D13
2672	E11	6665	E13
2673	G10	6666	G13
2674	F11	6667	F13
2675	G12	7600	I 8
2676	G13	7601	K 8
2677	G12	7610	I13
2678	B13	7621	E 2
2679	D14	7622	J 5
2680	C15	7625	H 5
2681	E14	7626	J 5
2682	E15	7632	M 5
2683	G14	7635	L 5
2684	F15	7636	N 5
2685	J 3	7660	C 4
2686	M 3	7660	C 8
2687	O 8	7670	B12
2688	D11		
2689	G11		
2700	N13		
2701	N12		
3600	H 8		
3601	I 8		
3602	H 8		
3603	I 8		
3604	I 8		
3605	J 8		
3606	K 8		
3607	J 8		
3608	K 8		
3609	I 9		
3610	H12		
3611	H12		
3612	H11		
3613	H10		
3614	I13		
3620	E 2		
3621	I 4		
3622	J 4		
3623	H 5		
3624	I 5		

Interface panel (Video part)


G1
1630-3B INTERFACE PANEL
1630-3A INTERFACE PANEL (VIDEO PART)
1625-5A SIDE REAR CONNECTIONS PANEL
1625-5B SIDE REAR CONNECTIONS PANEL
1600-2A SIDE FRONT CONNECTIONS PANEL
EXT1 IN
EXT2 IN
EXT3 IN
SAT-IN OPTIONAL
SAT-OUT OPTIONAL
MON-OUT CVBS
CVBS-EXT-1
C-EXT-1
Y-EXT-1
CVBS-EXT-2
C-EXT-2
Y-EXT-2
CVBS-EXT-3
C-EXT-3
Y-EXT-3
CVBS-SAT
CVBS-INT
CVBS-Y
CVBS-C
PIP OUT
7401 TEA6414A
7402 TEA6414A
MATRIX
SDA
SCL
EN1
EN2
CVB3 Y0+C0
CVBS2-IN
B
G2
1) FOR BS SET ONLY
2) NOT PRESENT IN BS SETS
NON BS : 330
BS : 560
NON BS : 3P3
BS : 5P6
NON BS : 560
BS : 180

1221	E 6
1221	C 1
1226	F 4
1241	J 6
1241	H 1
1246	K 4
1261	G 1
1281	B20
1291	F19
1301	N 6
1301	L 1
1306	O 4
1600	L 1
1625	C 1
1625	B18
1630	A 3
1630	A 9
2221	D 3
2226	F 5
2229	F 6
2241	I 3
2246	K 5
2249	J 6
2261	G 3
2301	M 3
2307	O 5
2309	N 6
2401	E10
2402	E10
2403	G10
2405	G10
2406	I13
2407	F10
2408	D11
2409	K10
2410	J10
2412	M13
2413	F10
2414	N 9
2416	M10
2419	M10
2420	E15
2432	J14
2433	J17
2440	G15
2442	L13
2450	L17
2465	H11
2466	I10
2467	J10
2468	J 9
2470	C10
2474	C11
2475	B11
2491	A 5
2493	A 4
2637	C 4
3221	D 3
3222	E 3
3223	E 3
3224	E 4
3225	F 4
3226	E 4
3227	F 5
3228	E 5
3229	E 6
3230	F 7
3241	I 3
3242	J 3
3243	J 3
3244	J 4
3245	J 4
3246	J 4
3247	K 5
3248	J 5
3249	J 6
3250	K 7
3261	G 3
3281	C19
3282	C19
3283	B19
3290	F19
3301	M 3
3302	N 3
3303	N 3
3304	N 4
3305	N 4
3306	N 4
3307	O 5
3308	N 5
3309	N 6
3310	O 7
3402	D11
3403	E11
3409	J11
3410	K11
3415	M10
3416	N10
3420	C 9
3421	D13
3422	D14
3423	D16
3424	D16
3426	D16
3427	F14
3428	F14
3429	E17
3431	J13
3433	J16
3434	J17
3435	J16
3441	F13
3443	G16
3444	F16
3445	F16
3451	G13
3452	L16
3453	J18
3454	J18
3455	J18
3456	K20
3457	J20
3458	J20
3459	N18
3460	M18
3461	M18
3462	M16
3463	J19
3465	H10
3466	I 9
3467	I10
3468	I 9
3470	C11
3471	C10
3472	C10
3473	C13
3474	C12
3475	B11
3476	B12
3477	A12
3481	B13
3482	C14
3483	B14
3484	C14
3485	B15
3486	C15
3487	C15
3491	A 5
3493	A 5
3637	B 5
6221	D 2
6222	E 2
6223	E 3
6241	I 2
6242	J 2
6243	J 3
6261	G 2
6281	C19
6282	C20
6283	B19
6290	G19
6301	M 2
6302	N 2
6303	N 3
6403	E11
6410	K10
6416	N10
6427	E16
6428	E15
6474	B12
6491	B 6
6493	A 4
6637	C 5
7226	F 5
7229	F 6
7246	K 5
7249	K 6
7306	N 5
7309	O 6
7401	C11
7402	I11
7424	D16
7425	D17
7428	E15
7433	J16
7443	F16
7444	F17
7453	J18
7454	J19
7456	J19
7459	M17
7471	C10
7476	B12
7482	B13
7484	B14
7487	B15

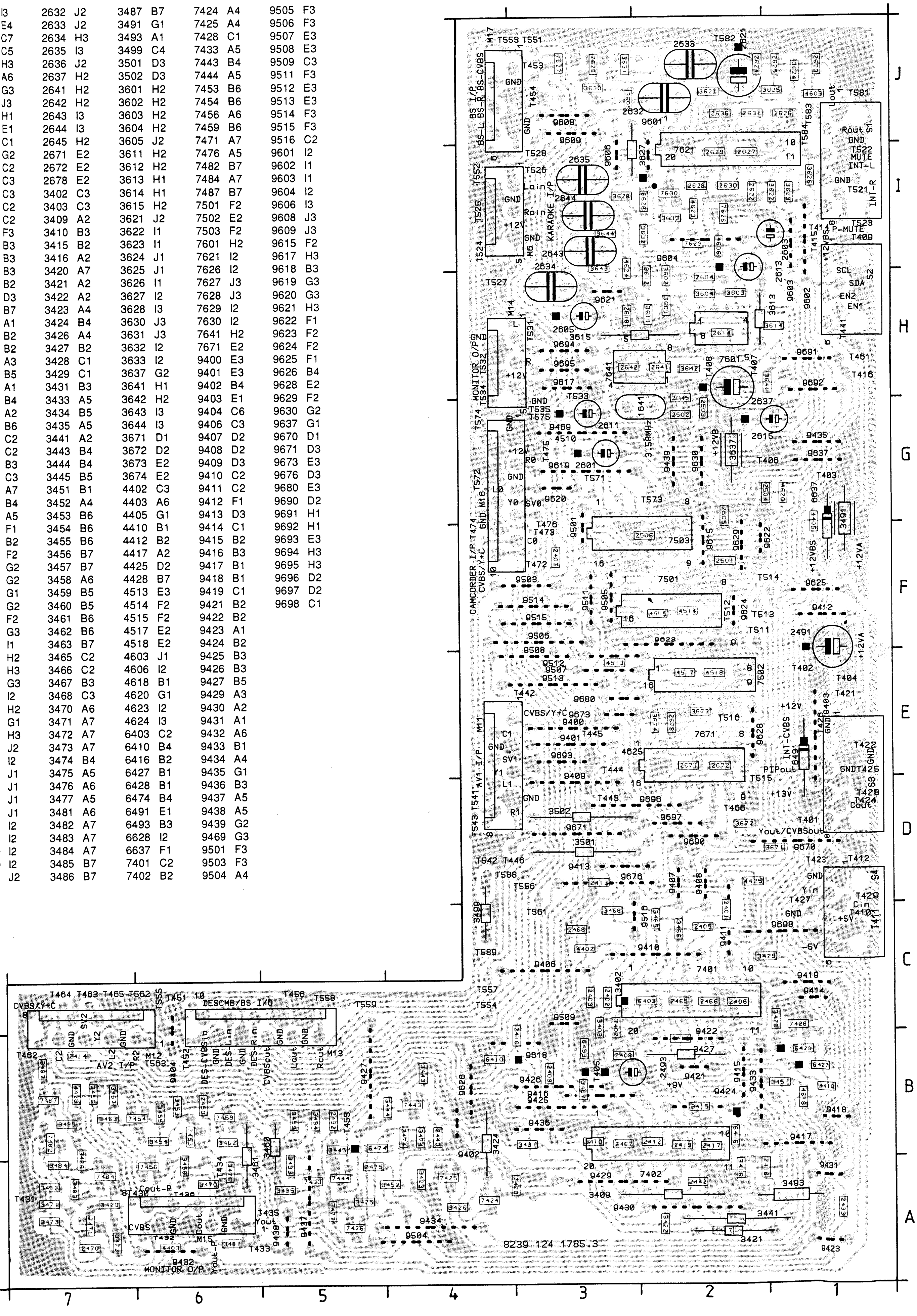
CHASSIS G8

CL36532068/017.GREF
280593

Interface panel

M6	I3
M11	E4
M12	C7
M13	C5
M14	H3
M15	A6
M16	G3
M17	J3
S2	H1
S3	E1
S4	C1
1641	G2
2401	C2
2402	C3
2403	C3
2405	C2
2406	C2
2407	F3
2408	B3
2409	B3
2410	B3
2412	B2
2413	D3
2414	B7
2416	A1
2417	B2
2419	B2
2420	A3
2432	B5
2433	A1
2440	B4
2442	A2
2450	B6
2465	C2
2466	C2
2467	B3
2468	C3
2470	A7
2474	B4
2475	A5
2491	F1
2493	B2
2501	F2
2502	G2
2503	G2
2504	G1
2505	G2
2506	F2
2601	G3
2603	I1
2604	H2
2605	H3
2611	G3
2613	I2
2614	H2
2615	G1
2618	H3
2621	J2
2622	I2
2623	J1
2624	J1
2625	J1
2626	J1
2627	I2
2628	I2
2629	I2
2630	I2
2631	J2
2632	J2
2633	J2
2634	H3
2635	I3
2636	J2
2637	H2
2641	H2
2642	H2
2643	I3
2644	I3
2645	H2
2671	E2
2672	E2
2678	E2
3402	C3
3403	C3
3409	A2
3410	B3
3415	B2
3416	A2
3420	A7
3421	A2
3422	A2
3423	A4
3424	B4
3426	A4
3427	B2
3428	C1
3429	C1
3431	B3
3433	A5
3434	B5
3435	A5
3441	A2
3443	B4
3444	B4
3445	B5
3451	B1
3452	A4
3453	B6
3454	B6
3455	B6
3456	B7
3457	B7
3458	A6
3459	B5
3460	B5
3461	B6
3462	B6
3463	B7
3465	C2
3466	C2
3467	B3
3468	C3
3470	A6
3471	A7
3472	A7
3473	A7
3474	B4
3475	A5
3476	A6
3477	A5
3481	A6
3482	A7
3483	A7
3484	A7
3485	B7
3486	B7
3487	B7
3491	G1
3493	A1
3499	C4
3501	D3
3502	D3
3601	H2
3602	H2
3603	H2
3604	H2
3605	J2
3611	H2
3612	H2
3613	H1
3614	H1
3615	H2
3621	J2
3622	I1
3623	I1
3624	J1
3625	J1
3626	I1
3627	I2
3628	I3
3630	J3
3631	J3
3632	I2
3633	I2
3637	G2
3641	H1
3642	H2
3643	I3
3644	I3
3671	D1
3672	D2
3673	E2
3674	E2
4402	C3
4403	A6
4405	G1
4410	B1
4412	B2
4417	A2
4425	D2
4428	B7
4513	E3
4514	F2
4515	F2
4517	E2
4518	E2
4603	J1
4606	I2
4618	B1
4620	G1
4623	I2
4624	I3
6403	C2
6410	B4
6416	B2
6427	B1
6428	B1
6474	B4
6491	E1
6493	B3
6628	I2
6637	F1
7401	C2
7402	B2
7424	A4
7425	A4
7428	C1
7433	A5
7443	B4
7444	A5
7453	B6
7454	B6
7456	A6
7459	B6
7471	A7
7476	A5
7482	B7
7484	A7
7487	B7
7501	F2
7502	E2
7503	F2
7601	H2
7621	I2
7626	I2
7627	J3
7628	J3
7629	I2
7630	I2
7641	H2
7671	E2
9400	E3
9401	E3
9402	B4
9403	E1
9404	C6
9406	C3
9407	D2
9408	D2
9409	D3
9410	C2
9411	C2
9412	F1
9413	D3
9414	C1
9415	B2
9416	B3
9417	B1
9418	B1
9419	C1
9421	B2
9422	B2
9423	A1
9424	B2
9425	B3
9426	B3
9427	B5
9429	A3
9430	A2
9431	A1
9432	A6
9433	B1
9434	A4
9435	G1
9436	B3
9437	A5
9438	A5
9439	G2
9469	G3
9501	F3
9503	F3
9504	A4
9505	F3
9506	F3
9507	E3
9508	E3
9509	C3
9511	F3
9512	E3
9513	E3
9514	F3
9515	F3
9516	C2
9601	I2
9602	I1
9603	I1
9604	I2
9606	I3
9608	J3
9609	J3
9615	F2
9617	H3
9618	B3
9619	G3
9620	G3
9621	H3
9622	F1
9623	F2
9624	F2
9625	F1
9626	B4
9628	E2
9629	F2
9630	G2
9637	G1
9670	D1
9671	D3
9673	E3
9676	D3
9680	E3
9690	D2
9691	H1
9692	H1
9693	E3
9694	H3
9695	H3
9696	D2
9697	D2
9698	C1

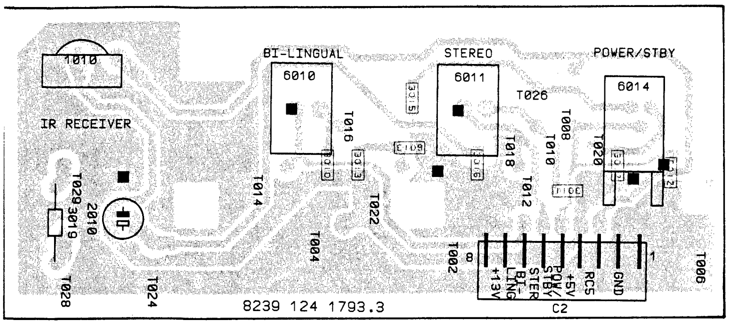
INTERFACE PANEL


J
I
H
G
F
E
D
C
B
A
7
6
5
4
3
2
1
BS I/P
BS-L BS-R BS-CVBS
KARAOKE I/P
Lain
Rain
MONITOR O/P
CAMCORDER I/P
CVBS/Y+C
AV1 I/P
CVBS/Y+C
AV2 I/P
DESCMB/BS I/O
MONITOR O/P
Rout
GND
MUTE
INT-L
INT-R
P-MUTE
SCL
SDA
EN2
EN1
INT-CVBS
PIPout
Yout/CVBSout
Yin
Cin
+5V
-5V
+12V
+13V
+9V
+12VA
+12VB
+12VBS
3.58MHZ
7621
7601
7503
7501
7502
7671
7401
7402
8239 124 1785.3

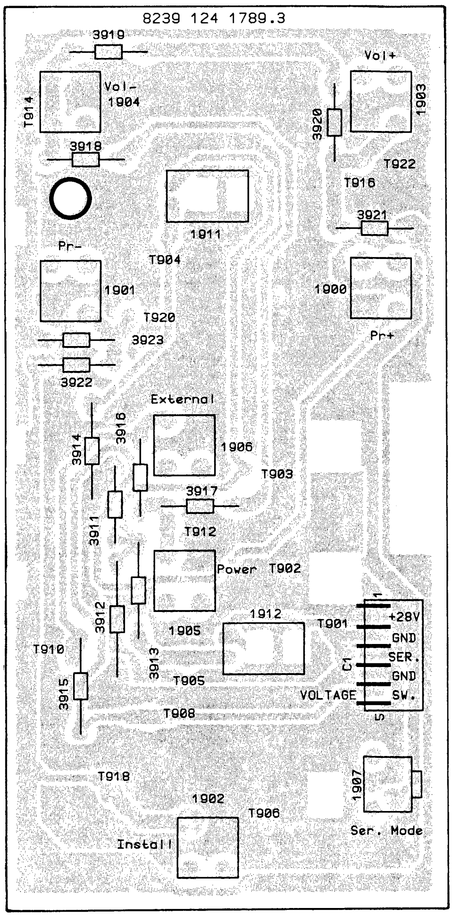
PCS 43 407

Connections panel

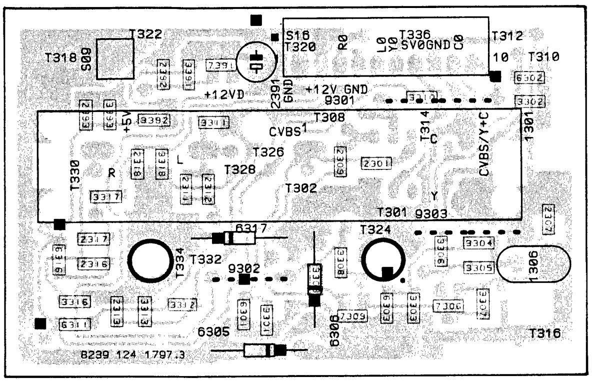
Local keyboard


1010
IR RECEIVER
BI-LINGUAL
6010
STEREO
6011
POWER/STBY
6014
T016
T026
T008
T018
T010
T020
T012
T014
T022
T004
T002
T000
T029
3019
2010
T028
T024
+13V
BI LING
STER
POW STBY
+5V
RC5
GND
C2
8239 124 1793.3

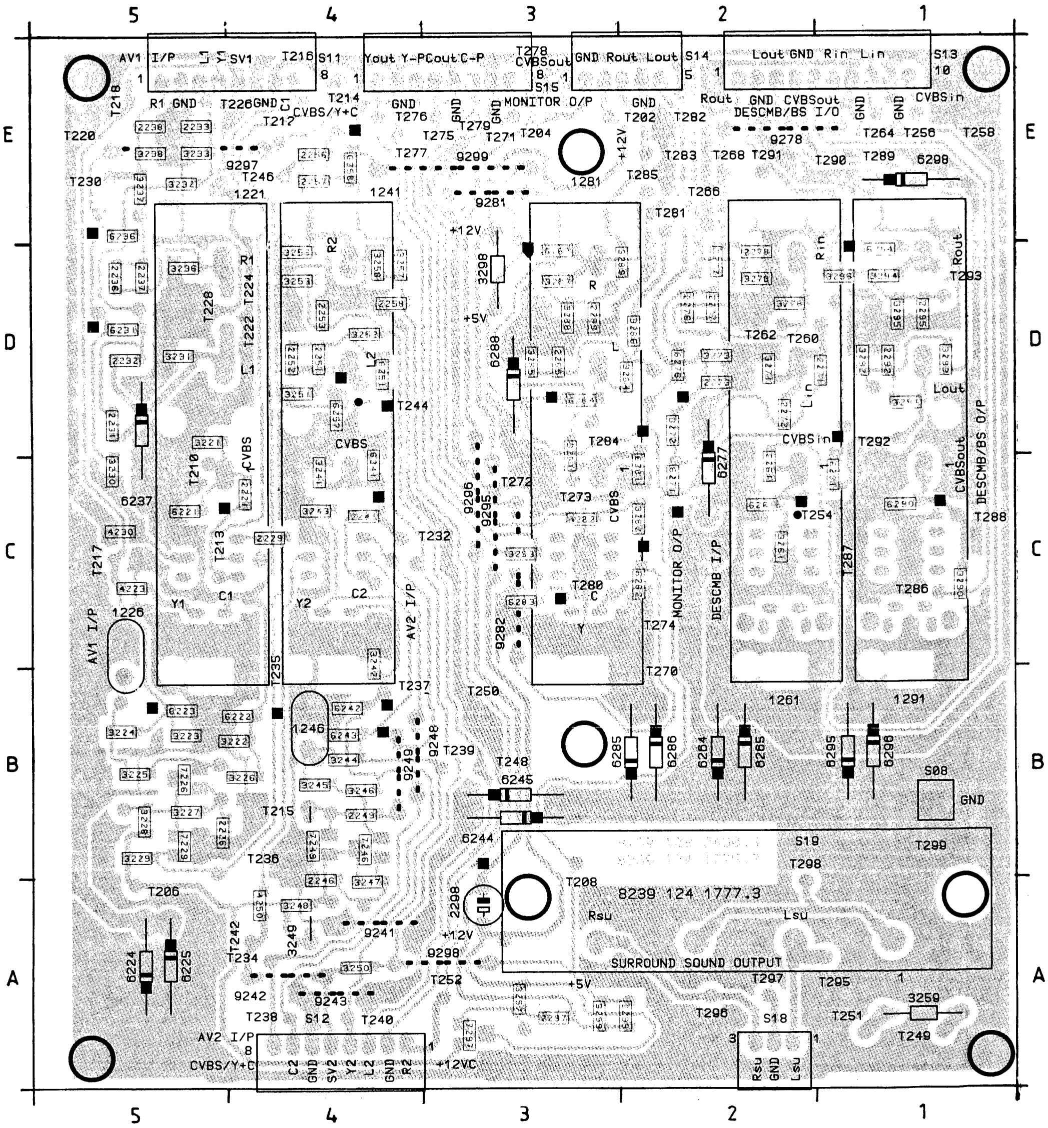
LED panel


8239 124 1789.3
3919
Vol+
Vol-
1904
T914
3918
3920
1903
T922
T916
3921
1911
Pr-
T904
1901
1900
T920
3923
Pr+
3922
External
3914
3916
1906
T903
3917
3911
T912
Power
T902
3912
1905
1912
T901
+28V
GND
SER.
GND
SW.
VOLTAGE
C1
T910
3913
T905
3915
T908
T918
1902
T906
1907
Ser. Mode
Install

Side front connections

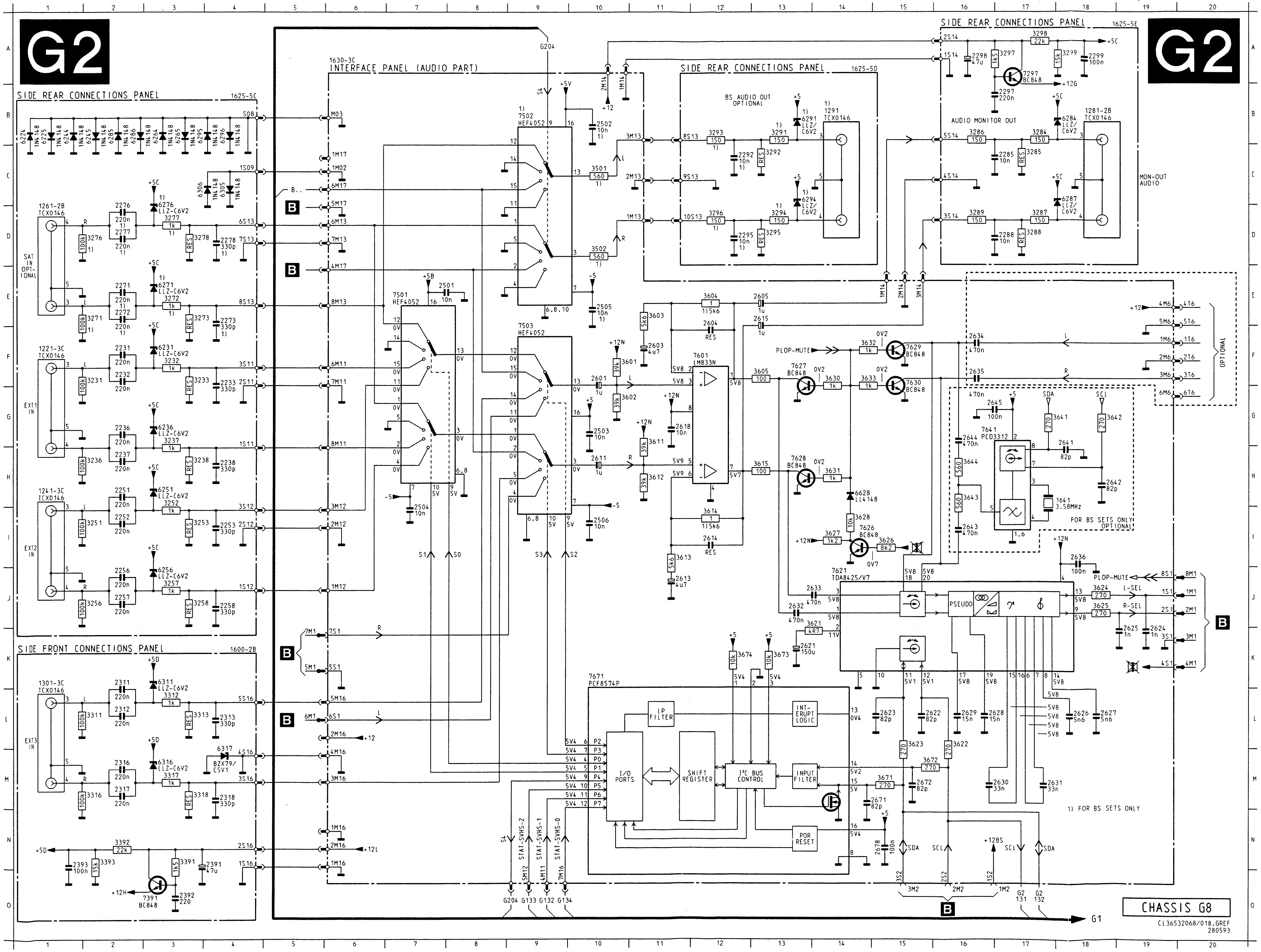

T322
T318
S08
S16
T320
R0
L0
Y0
T336
SV0GND
C0
T312
T310
+12VD
+12V GND
9301
CVBS
T308
T314
CVBS/Y+C
1301
T326
T328
T330
R
L
T302
Y
T301
9303
6317
T324
T332
9302
T334
1306
6305
6306
T316
8239 124 1797.3

Side rear connections


5
4
3
2
1
E
D
C
B
A
AV1 I/P
SV1
T216
S11
Yout Y-PCout C-P
T278
CVBSout
S15
GND Rout Lout
S14
Lout GND Rin Lin
S13
CVBSin
R1 GND
T226
GND C1
CVBS/Y+C
T214
T212
GND
T276
T275
T279
MONITOR O/P
T271
T204
+12V
GND
T202
Rout
T282
GND CVBSout
DESCMB/BS I/O
9278
T264
T256
T258
T218
T220
T230
9297
T246
1221
T277
9299
1241
1281
T283
T268
T291
T290
T289
6298
T285
T266
9281
T281
+12V
R1
T228
T222
T224
L1
R2
L2
+5V
3298
6288
R
L
Rin
Lin
Rout
Lout
T293
T262
T260
T244
CVBS
T210
CVBS
T284
CVBSin
T292
6237
9296
9295
T272
T273
6277
T254
CVBSout
DESCMB/BS O/P
T288
T213
T232
MONITOR O/P
DESCMB I/P
T287
T217
C1
C2
AV2 I/P
T280
C
Y
9282
T274
T286
1226
Y1
Y2
AV1 I/P
T235
T270
T237
T250
1261
1291
1246
9248
9249
T239
T248
6285
6286
6264
6265
6295
6296
6245
S08
GND
T215
6244
S19
T299
T236
T298
T206
2298
T208
8239 124 1777.3
Rsu
Lsu
6224
6225
T242
T234
3249
9241
9298
+12V
SURROUND SOUND OUTPUT
T252
+5V
T297
T295
3259
9242
9243
T238
S12
T240
T296
S18
T251
T249
AV2 I/P
CVBS/Y+C
C2
GND
SV2
Y2
L2
GND
R2
+12VC
Rsu
GND
Lsu

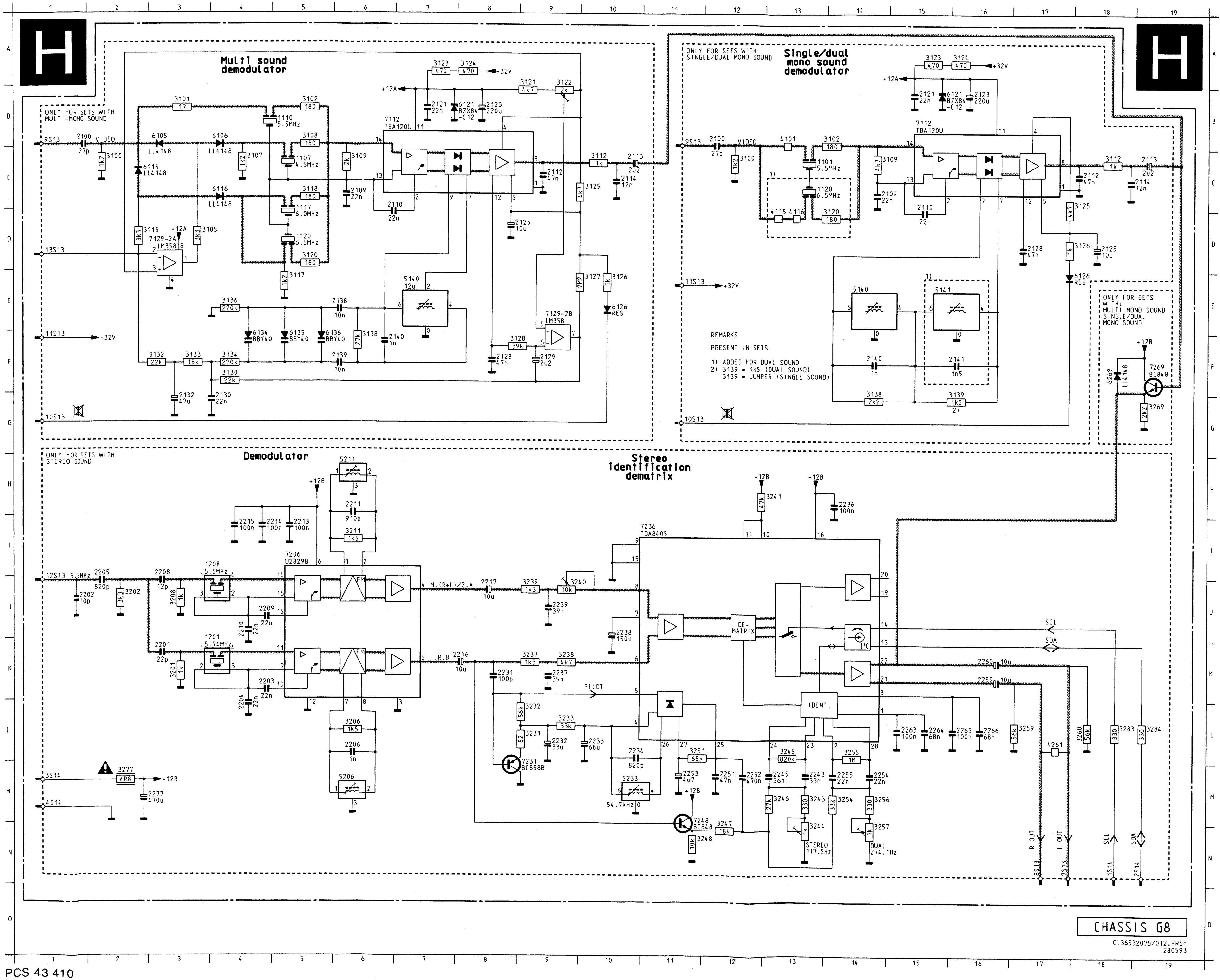
S08	B1
S11	E5
S12	A4
S13	E2
S14	E3
S15	E3
S19	A2
1221	D5
1226	B5
1241	D4
1246	B4
1261	D2
1281	D3
1291	D1
2221	C4
2226	B5
2229	C4
2231	D5
2232	D5
2233	E5
2236	D5
2237	D5
2238	E5
2241	C4
2246	A4
2249	B4
2251	D4
2252	D4
2253	D4
2256	E4
2257	E4
2258	D4
2261	C2
2271	D2
2272	D2
2273	D2
2276	D2
2277	D2
2278	E2
2285	D3
2288	D3
2292	D1
2295	D1
2297	A3
2298	A3
2299	A3
3221	D5
3222	B4
3223	B5
3224	B5
3225	B5
3226	B4
3227	B5
3228	B5
3229	A5
3230	C5
3231	D5
3232	E5
3233	E5
3236	D5
3237	E5
3238	E5
3241	C4
3242	B4
3243	C4
3244	B4
3245	B4
3246	B4
3247	A4
3248	A4
3249	A4
3250	A4
3251	D4
3252	D4
3253	D4
3256	E4
3257	D4
3258	D4
3259	A1
3261	C2
3271	D2
3272	D2
3273	D2
3276	D2
3277	D2
3278	D2
3281	C3
3282	C3
3283	C3
3284	D3
3285	D3
3286	D3
3287	D3
3288	D3
3289	D3
3290	C1
3291	D1
3292	D2
3293	D1
3294	D1
3295	D1
3296	D2
3297	A3
3298	D3
3299	A3
4223	C5
4230	C5
4250	A4
4282	C3
6221	C5
6222	B4
6223	B5
6224	A5
6225	A5
6231	D5
6236	E5
6237	D5
6241	C4
6242	B4
6243	B4
6244	B3
6245	B3
6251	D4
6256	E4
6257	D4
6261	C2
6264	B2
6265	B2
6271	C2
6276	D2
6277	C2
6281	C3
6282	C3
6283	C3
6284	D3
6285	B3
6286	B3
6287	E3
6288	D3
6290	C1
6291	C2
6294	E1
6295	B2
6296	B1
6298	E1
7226	B5
7229	B5
7246	A4
7249	B4
7297	A3
9241	A4
9242	A4
9243	A4
9248	B4
9249	B4
9278	E2
9281	E3
9282	C3
9295	C3
9296	C3
9297	E5
9298	A4
9299	E3

Interface panel (Audio part)


G2
SIDE REAR CONNECTIONS PANEL 1625-5C
SIDE FRONT CONNECTIONS PANEL 1600-2B
1630-3C INTERFACE PANEL (AUDIO PART)
SIDE REAR CONNECTIONS PANEL 1625-5D
SIDE REAR CONNECTIONS PANEL 1625-5E
BS AUDIO OUT OPTIONAL
AUDIO MONITOR OUT
MON-OUT AUDIO
SAT IN OPTIONAL
EXT1 IN
EXT2 IN
EXT3 IN
1261-2B TCX0146
1221-3C TCX0146
1241-3C TCX0146
1301-3C TCX0146
1291 TCX0146
1281-2B TCX0146
7501 HEF4052
7502 HEF4052
7503 HEF4052
7601 LM833N
7621 TDA8425/V7
7641 PCD3312
7671 PCF8574P
1641 3.58MHz
FOR BS SETS ONLY OPTIONAL
OPTIONAL
PLOP-MUTE
L-SEL
R-SEL
PSEUDO
I/O PORTS
SHIFT REGISTER
I²C BUS CONTROL
LP FILTER
INT-ERUPT LOGIC
INPUT FILTER
POR RESET
STAT-SWHS-2
STAT-SWHS-1
STAT-SWHS-0
SDA
SCL
1) FOR BS SETS ONLY
G204 G133 G132 G134
G2 131
G2 132
G1
B
CHASSIS G8
CL 36532068/018.GREF 280593

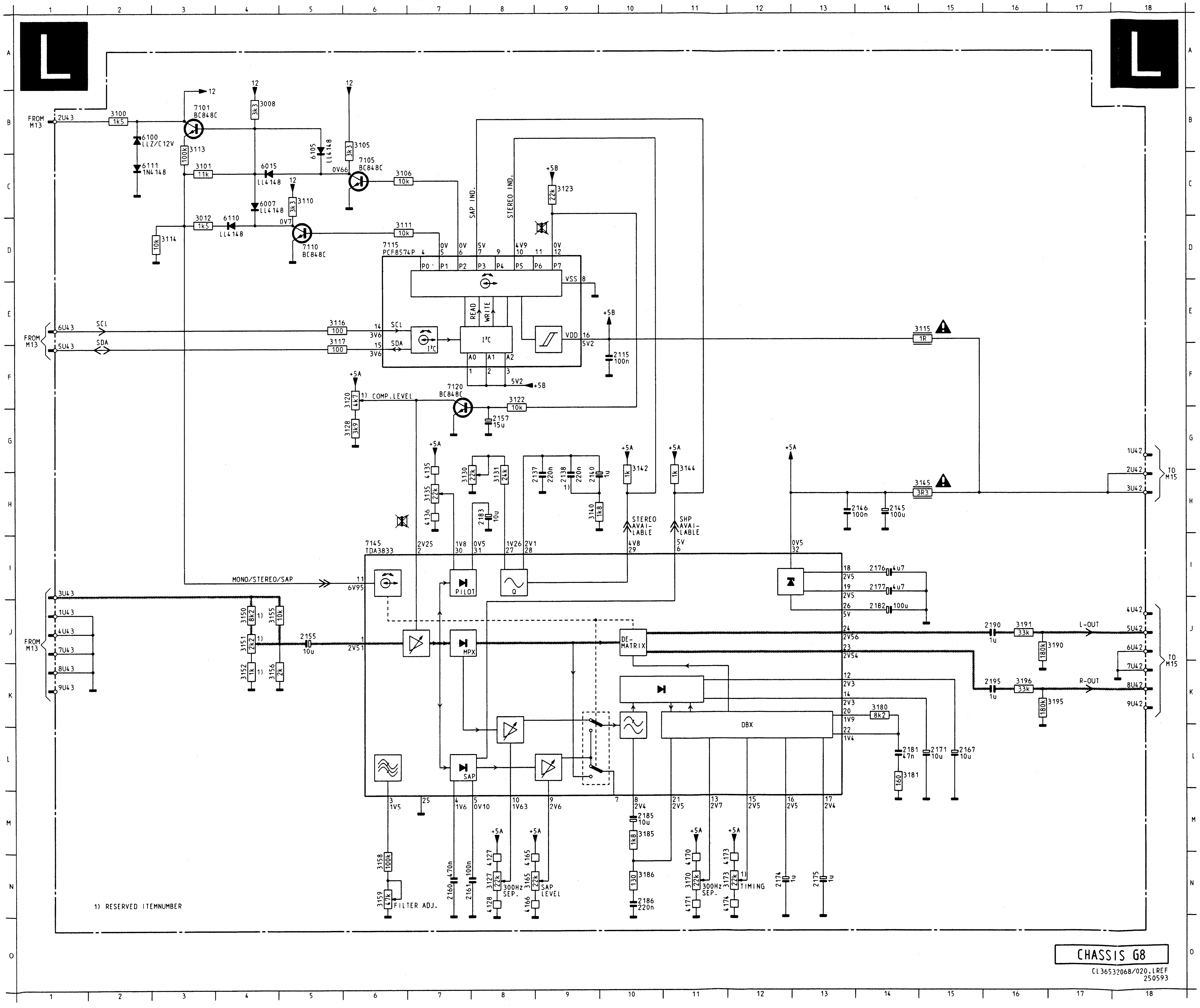
1221	F 1
1241	H 1
1261	D 1
1281	B18
1291	B14
1301	K 1
1600	K 4
1625	B 4
1625	A15
1625	A19
1630	A 6
1641	H18
2231	F 2
2232	F 2
2233	F 4
2236	G 2
2237	H 2
2238	H 4
2251	H 2
2252	I 2
2253	I 4
2256	J 2
2257	J 2
2258	J 4
2271	E 2
2272	E 2
2273	E 4
2276	D 2
2277	D 2
2278	D 4
2285	C17
2288	D17
2292	C12
2295	D12
2297	B17
2298	A16
2299	A18
2311	K 2
2312	L 2
2313	L 4
2316	M 2
2317	M 2
2318	M 4
2391	N 4
2392	O 3
2393	N 1
2501	E 7
2502	B10
2503	G10
2504	I 7
2505	E10
2506	I10
2601	F10
2603	F11
2604	F12
2605	E13
2611	H10
2613	J11
2614	I12
2615	E13
2618	G11
2621	K13
2622	L15
2623	L15
2624	K19
2625	K19
2626	L18
2627	L18
2628	L16
2629	L16
2630	M16
2631	M17
2632	J13
2633	J14
2634	F16
2635	F16
2636	I18
2641	H18
2642	H18
2643	I16
2644	G16
2645	G17
2671	M14
2672	M15
2678	N15
3231	F 2
3232	F 3
3233	F 3
3236	H 2
3237	G 3
3238	H 3
3251	I 2
3252	H 3
3253	I 3
3256	J 2
3257	J 3
3258	J 3
3271	E 2
3272	E 3
3273	E 3
3276	D 2
3277	D 3
3278	D 3
3284	B17
3285	C17
3286	B16
3287	D17
3288	D17
3289	D16
3291	B13
3292	C13
3293	B12
3294	D13
3295	D13
3296	D12
3297	A17
3298	A17
3299	A18
3311	L 2
3312	L 3
3313	L 3
3316	M 2
3317	M 3
3318	M 3
3391	N 3
3392	N 2
3393	N 2
3501	C10
3502	D10
3601	F10
3602	G10
3603	E11
3604	E12
3605	F13
3611	G11
3612	H11
3613	I11
3614	I12
3615	H13
3621	J14
3622	L16
3623	L15
3624	J18
3625	J18
3626	I15
3627	I14
3628	I14
3630	F14
3631	H14
3632	F14
3633	F14
3641	G17
3642	G18
3643	H16
3644	H16
3671	M15
3672	M15
3673	K13
3674	K12
6224	B 1
6225	B 1
6231	F 3
6236	G 3
6244	B 1
6245	B 2
6251	H 3
6256	J 3
6264	B 3
6265	B 3
6271	E 3
6276	D 3
6284	B18
6285	B 2
6286	B 2
6287	C18
6291	B13
6294	C13
6295	B 3
6296	B 4
6305	C 4
6306	C 3
6311	K 3
6316	M 3
6317	M 4
6628	H14
7297	A17
7391	O 3
7501	E 7
7502	B 9
7503	F 9
7601	F12
7621	J14
7626	I14
7627	F13
7628	H13
7629	F15
7630	G15
7641	G16
7671	K10

Multi mono sound


H
Multi sound demodulator
ONLY FOR SETS WITH MULTI-MONO SOUND
Single/dual mono sound demodulator
ONLY FOR SETS WITH SINGLE/DUAL MONO SOUND
ONLY FOR SETS WITH: MULTI MONO SOUND SINGLE/DUAL MONO SOUND
ONLY FOR SETS WITH STEREO SOUND
Demodulator
Stereo identification dematrix
7112 TBA120U
7129-2A LM358
7129-2B LM358
7206 U2829B
7236 TDA8405
7231 BC858B
7248 BC848
7269 BC848
1110 5.5MHz
1107 4.5MHz
1117 6.0MHz
1120 6.5MHz
1101 5.5MHz
1208 5.5MHz
1201 5.74MHz
9S13
13S13
11S13
10S13
12S13 5.5MHz
3S14
4S14
+32V
+12A
+12B
VIDEO
M.(R+L)/2.A
S.-.R.B
PILOT
DE-MATRIX
IDENT.
I²C
SCL
SDA
R OUT
L OUT
8S13
7S13
1S14
2S14
STEREO 117.5Hz
DUAL 274.1Hz
54.7kHz
REMARKS
PRESENT IN SETS:
1) ADDED FOR DUAL SOUND
2) 3139 = 1k5 (DUAL SOUND)
3139 = JUMPER (SINGLE SOUND)
CHASSIS G8
CL36532075/012.HREF
280593

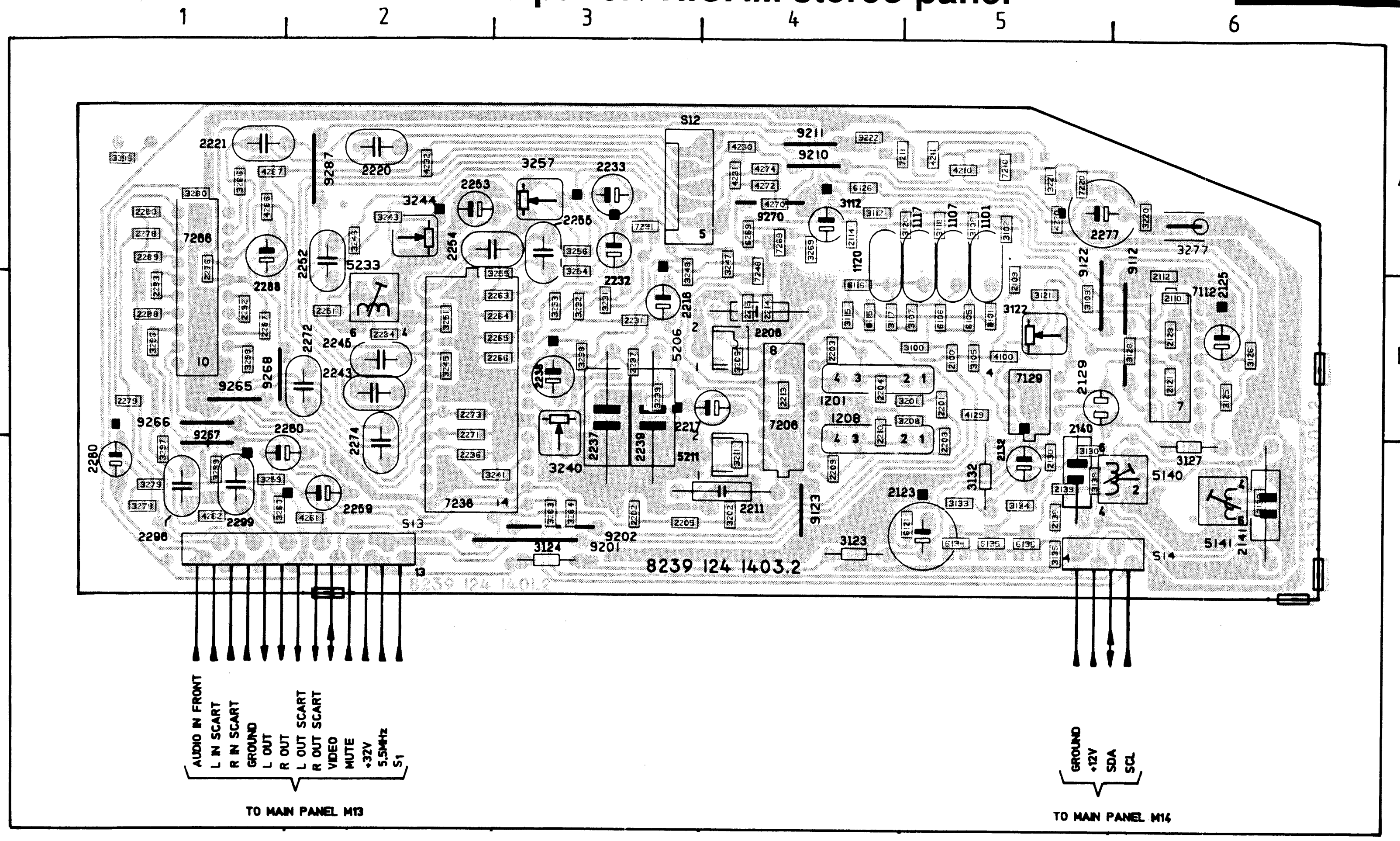
1101	C13	3232	L 9
1107	C 5	3233	L 9
1110	B 5	3237	K 9
1117	D 5	3238	K 9
1120	D 5	3239	J 9
1120	C13	3240	J 9
1201	K 3	3241	H13
1208	I 3	3243	M13
2100	B 1	3244	M13
2100	B12	3245	L13
2109	C 6	3246	M13
2109	C14	3247	N12
2110	C 6	3248	N11
2110	C15	3251	L11
2112	C 9	3254	M14
2112	C18	3255	L14
2113	C19	3256	M14
2113	C10	3257	M14
2114	C18	3259	L17
2114	C10	3260	L18
2121	B 7	3269	G19
2121	B15	3277	M 2
2123	B 8	3283	L18
2123	B16	3284	L19
2125	D 8	4101	B13
2125	D18	4115	D13
2128	F 8	4116	D13
2128	D17	4261	L17
2129	F 9	5140	E 7
2130	G 4	5140	E14
2132	G 3	5141	E15
2138	E 6	5206	M 6
2139	F 6	5211	H 6
2140	F 6	5233	M10
2140	F14	6105	B 3
2141	F16	6106	B 4
2201	K 3	6115	C 2
2202	J 1	6116	C 4
2203	K 4	6121	B 8
2204	L 4	6121	B15
2205	I 2	6126	E10
2206	L 6	6126	E17
2208	I 3	6134	F 4
2209	J 4	6135	F 5
2210	J 4	6136	F 5
2211	H 6	6269	F18
2213	I 5	7112	B 6
2214	I 4	7112	B15
2215	I 4	7129	D 3
2216	K 8	7129	E 9
2217	J 8	7206	I 5
2231	K 8	7231	M 9
2232	L 9	7236	I 10
2233	L10	7248	N11
2234	L10	7269	F19
2236	H14		
2237	K 9		
2238	J10		
2239	J 9		
2243	M13		
2245	M13		
2251	M12		
2252	M12		
2253	M11		
2254	M14		
2255	M14		
2259	K16		
2260	K16		
2263	L15		
2264	L15		
2265	L16		
2266	L16		
2277	M 2		
3100	C 2		
3100	C12		
3101	B 3		
3102	B 5		
3102	B14		
3105	D 3		
3107	C 4		
3108	B 5		
3109	C 6		
3109	C14		
3112	C18		
3112	C10		
3115	D 2		
3117	E 5		
3118	C 5		
3120	D 5		
3120	D14		
3121	A 9		
3122	A 9		
3123	A 7		
3123	A15		
3124	A 8		
3124	A16		
3125	C10		
3125	C17		
3126	E10		
3126	D17		
3127	E10		
3128	F 8		
3130	F 4		
3132	F 3		
3133	F 3		
3134	F 4		
3136	E 4		
3138	E 6		
3138	G14		
3139	G16		
3201	K 3		
3202	J 2		
3206	L 6		
3208	J 3		
3211	I 6		
3231	L 9		

BTSC stereo sound

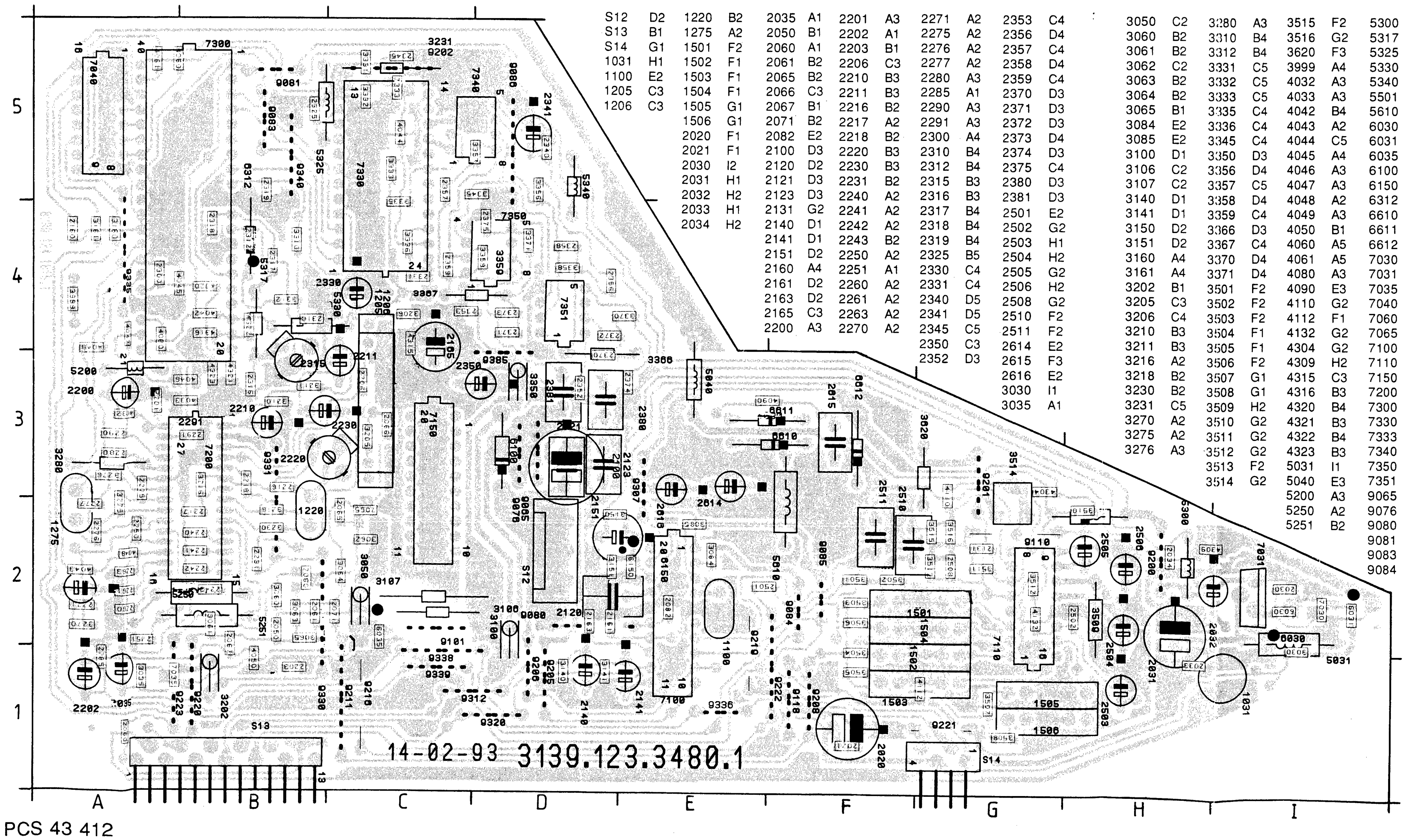

L
FROM M13
2U43
3100 1k5
7101 BC848C
6100 LLZ/C12V
6111 1N4148
3113 100k
3008 3k3
3101 11k
6015 LL4148
6105 LL4148
3105 3k3
7105 BC848C
0V66
3106 10k
6007 LL4148
3110 3k3
0V7
3012 1k5
6110 LL4148
3114 10k
7110 BC848C
3111 10k
7115 PCF8574P
SAP IND.
STEREO IND.
+5B
3123 22k
P0 P1 P2 P3 P4 P5 P6 P7
VSS
READ
WRITE
I²C
VDD
5V2
A0 A1 A2
6U43 SCL
5U43 SDA
3116 100
3117 100
3V6
3115 1R
2115 100n
+5A
3120 4k7
1) COMP. LEVEL
3128 3k9
7120 BC848C
3122 10k
2157 15u
4135
3135 22k
4136
3130 22k
3131 24k
2183 10u
2137 220n
2138 220n
2140 1u
3140 1k8
3142 1k
3144 1k
STEREO AVAI-LABLE
SHP AVAI-LABLE
7145 TDA3833
MONO/STEREO/SAP
6V95
PILOT
Q
MPX
SAP
DE-MATRIX
DBX
3U43
1U43
4U43
7U43
8U43
9U43
3150 8k2
3151 2k2
3152 1k
3155 10k
3156 2k
2155 10u
2V51
2146 100n
2145 100u
3145 3R3
1U42
2U42
3U42
TO M15
2176 4u7
2177 4u7
2182 100u
2190 1u
3191 33k
L-OUT
3190 180k
2195 1u
3196 33k
R-OUT
3195 180k
4U42
5U42
6U42
7U42
8U42
9U42
3180 8k2
2181 47n
2171 10u
2167 10u
3181 160
3158 100k
3159 47k
FILTER ADJ.
2160 470n
2161 100n
4127
3127 22k
4128
300Hz SEP.
4165
3165 22k
4166
SAP LEVEL
2185 10u
3185 1k8
3186 130
2186 220n
4170
3170 22k
4171
300Hz SEP.
4173
3173 22k
4174
TIMING
2174 1u
2175 1u
1) RESERVED ITEMNUMBER
CHASSIS G8
CL 36532068/020.LREF
250593

2115	F10
2137	H 9
2138	H 9
2140	H 9
2145	H14
2146	H13
2155	J 5
2157	G 8
2160	N 7
2161	N 8
2167	L15
2171	L15
2174	N12
2175	N13
2176	I14
2177	I14
2181	L14
2182	J14
2183	H 8
2185	M10
2186	N10
2190	J16
2195	K16
3008	B 4
3012	D 3
3100	B 2
3101	C 3
3105	B 6
3106	C 6
3110	C 5
3111	D 6
3113	B 3
3114	D 3
3115	E15
3116	E 5
3117	F 5
3120	F 6
3122	F 8
3123	C 9
3127	N 8
3128	G 6
3130	H 7
3131	H 8
3135	H 7
3140	H 9
3142	G10
3144	G11
3145	H15
3150	J 4
3151	J 4
3152	K 4
3155	J 4
3156	K 4
3158	N 6
3159	N 6
3165	N 8
3170	N11
3173	N12
3180	K14
3181	L14
3185	M10
3186	N10
3190	J16
3191	J16
3195	K16
3196	K16
4127	N 8
4128	N 8
4135	G 7
4136	H 7
4165	N 8
4166	N 8
4170	N11
4171	N11
4173	N12
4174	N12
6007	C 4
6015	C 4
6100	B 2
6105	B 5
6110	D 4
6111	C 2
7101	B 3
7105	C 6
7110	D 5
7115	D 6
7120	F 7
7145	I 6

Multi mono panel / NICAM stereo panel



1101	A5	2255	A3	3206	B4	4272	A4
1107	A5	2259	C2	3208	B4	4274	A4
1117	A5	2260	C1	3211	C4	4286	A1
1120	B4	2263	B2	3220	A6	4287	A1
1201	B4	2264	B2	3221	A5	5140	C6
1208	C4	2265	B2	3222	A4	5141	C6
2100	B5	2266	B2	3231	B3	5206	B4
2109	B5	2271	C2	3232	B3	5211	C4
2110	B6	2272	B2	3233	B3	5233	B2
2112	B6	2273	B2	3237	B3	6105	B5
2113	A4	2274	C2	3238	B3	6106	B5
2114	A4	2276	B1	3239	B3	6115	B4
2121	B6	2277	A5	3240	B3	6116	B4
2123	C5	2278	A1	3241	C2	6121	C4
2125	B6	2279	B1	3243	A2	6126	A4
2128	B6	2280	C1	3244	A2	6134	C5
2129	B5	2286	A1	3245	B2	6135	C5
2130	C5	2287	B1	3246	A2	6136	C5
2132	C5	2288	B1	3247	A4	6269	A4
2138	C5	2289	A1	3248	B3	7112	B6
2139	C5	2290	A1	3251	B2	7129	B5
2140	C5	2292	B1	3254	B3	7206	C4
2141	C6	2293	B1	3255	B2	7210	A5
2201	B5	2296	C1	3256	A3	7211	A4
2202	C3	2299	C1	3257	A3	7220	A5
2203	B4	3100	B5	3259	C1	7231	A3
2204	B4	3101	B5	3260	C1	7236	B3
2205	C3	3102	A5	3269	A4	7248	B4
2206	B4	3105	B5	3277	A6	7266	A1
2208	C5	3107	B4	3278	C1	7269	A4
2209	C4	3108	A5	3279	C1	9112	B6
2210	B4	3109	B5	3280	A1	9122	B5
2211	C4	3112	A4	3283	C3	9123	C4
2213	B4	3115	B4	3284	C3	9201	C3
2214	B4	3117	B4	3286	A1	9202	C3
2215	B4	3118	A5	3296	B1	9210	A4
2216	B3	3120	A4	3297	C1	9211	A4
2217	B4	3121	B5	3298	B1	9265	B1
2220	A2	3122	B5	3299	C1	9266	B1
2221	A1	3123	C4	3399	A1	9267	C1
2231	B3	3124	C3	4100	B5	9268	B1
2232	A3	3125	B6	4101	B5	9270	A4
2233	A3	3126	B6	4115	B4	9287	A2
2234	B2	3127	C6	4116	B4	S12	A3
2236	C2	3128	B6	4129	B5	S13	C2
2237	B3	3130	C5	4210	A5	S14	C6
2238	B3	3132	C5	4211	A5		
2239	B3	3133	C5	4220	A5		
2243	B2	3134	C5	4230	A4		
2245	B2	3136	C5	4231	A4		
2251	B2	3138	C5	4232	A2		
2252	A2	3139	C6	4261	C2		
2253	A2	3201	B4	4262	C1		
2254	A2	3202	C4	4270	A4		



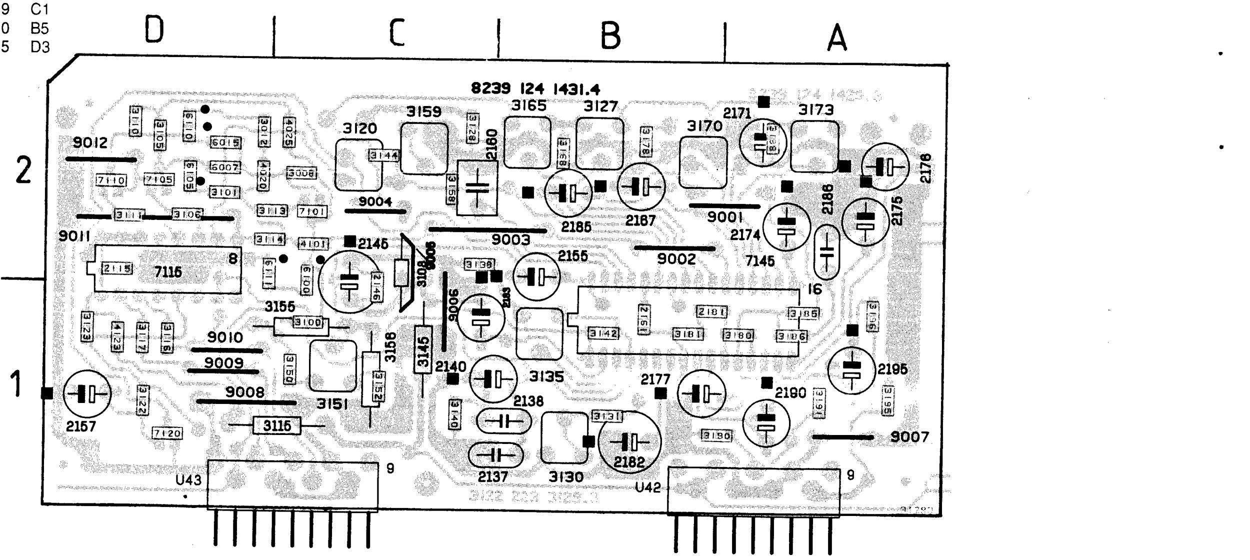
S12	D2	1220	B2	2035	A1	2201	A3	2271	A2	2353	C4
S13	B1	1275	A2	2050	B1	2202	A1	2275	A2	2356	D4
S14	G1	1501	F2	2060	A1	2203	B1	2276	A2	2357	C4
1031	H1	1502	F1	2061	B2	2206	C3	2277	A2	2358	D4
1100	E2	1503	F1	2065	B2	2210	B3	2280	A3	2359	C4
1205	C3	1504	F1	2066	C3	2211	B3	2285	A1	2370	D3
1206	C3	1505	G1	2067	B1	2216	B2	2290	A3	2371	D3
		1506	G1	2071	B2	2217	A2	2291	A3	2372	D3
		2020	F1	2082	E2	2218	B2	2300	A4	2373	D4
		2021	F1	2100	D3	2220	B3	2310	B4	2374	D3
		2030	I2	2120	D2	2230	B3	2312	B4	2375	C4
		2031	H1	2121	D3	2231	B2	2315	B3	2380	D3
		2032	H2	2123	D3	2240	A2	2316	B3	2381	D3
		2033	H1	2131	G2	2241	A2	2317	B4	2501	E2
		2034	H2	2140	D1	2242	A2	2318	B4	2502	G2
				2141	D1	2243	B2	2319	B4	2503	H1
				2151	D2	2250	A2	2325	B5	2504	H2
				2160	A4	2251	A1	2330	C4	2505	G2
				2161	D2	2260	A2	2331	C4	2506	H2
				2163	D2	2261	A2	2340	D5	2508	G2
				2165	C3	2263	A2	2341	D5	2510	F2
				2200	A3	2270	A2	2345	C5	2511	F2
								2350	C3	2614	E2
								2352	D3	2615	F3
										2616	E2
										3030	I1
										3035	A1

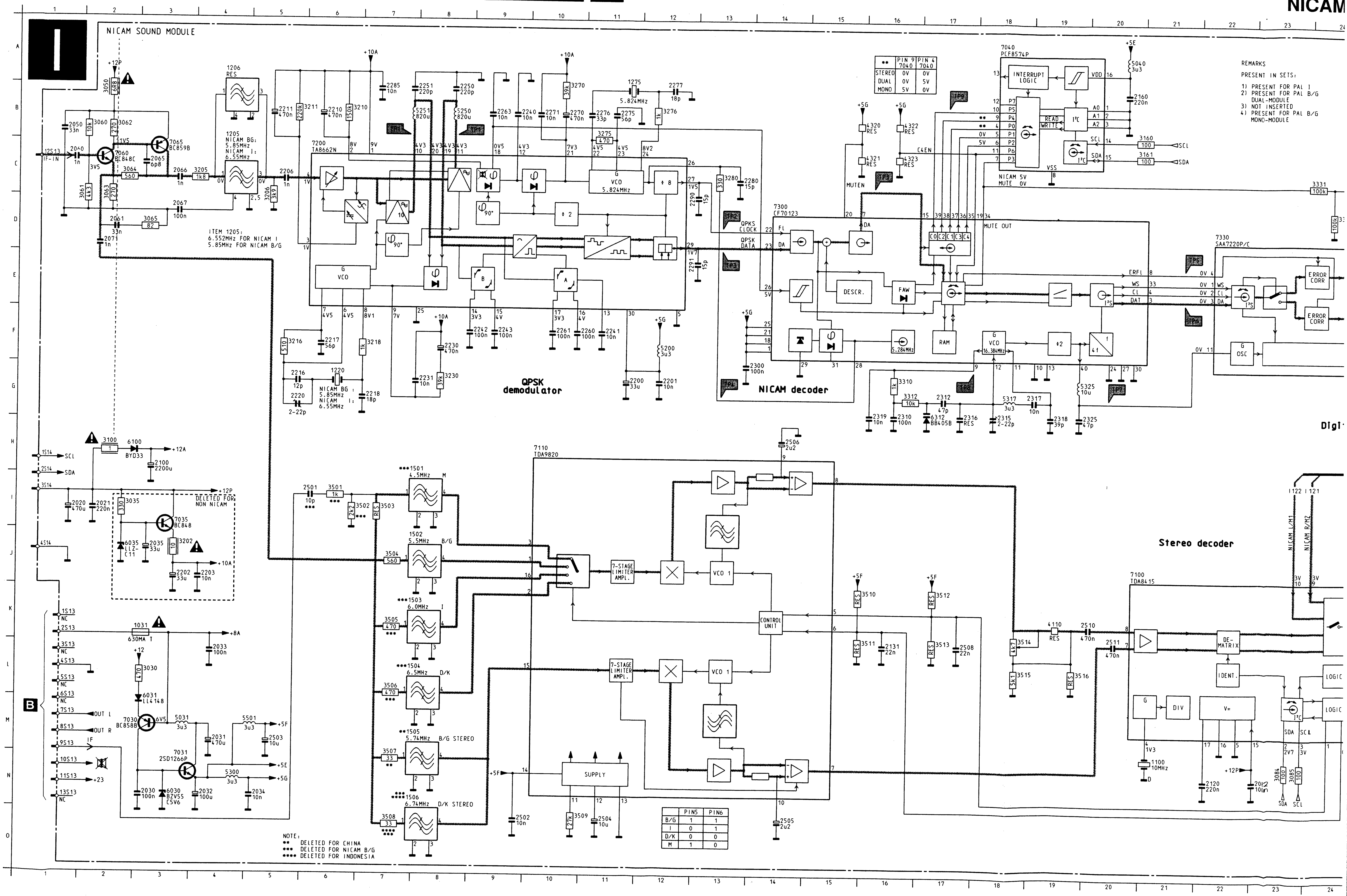
3050	C2	3280	A3	3515	F2	5300	H2	9085	F2
3060	B2	3310	B4	3516	G2	5317	B4	9086	D5
3061	B2	3312	B4	3620	F3	5325	B5	9101	C1
3062	C2	3331	C5	3999	A4	5330	B4	9110	G2
3063	B2	3332	C5	4032	A3	5340	D4	9118	E1
3064	B2	3333	C5	4033	A3	5501	H2	9200	H2
3065	B1	3335	C4	4042	B4	5610	E2	9201	G2
3084	E2	3336	C4	4043	A2	6030	I2	9202	C5
3085	E2	3345	C4	4044	C5	6031	I2	9205	D1
3100	D1	3350	D3	4045	A4	6035	C1	9206	D1
3106	C2	3356	D4	4046	A3	6100	D3	9208	F1
3107	C2	3357	C5	4047	A3	6150	D2	9211	B1
3140	D1	3358	D4	4048	A2	6312	B4	9216	C1
3141	D1	3359	C4	4049	A3	6610	E3	9219	E1
3150	D2	3366	D3	4050	B1	6611	E3	9220	A1
3151	D2	3367	C4	4060	A5	6612	F3	9221	G1
3160	A4	3370	D4	4061	A5	7030	I2	9222	E1
3161	A4	3371	D4	4080	A3	7031	I2	9223	A1
3202	B1	3501	F2	4090	E3	7035	A1	9307	D2
3205	C3	3502	F2	4110	G2	7040	A5	9312	C1
3206	C4	3503	F2	4112	F1	7060	B2	9320	C1
3210	B3	3504	F1	4132	G2	7065	C2	9330	B2
3211	B3	3505	F1	4304	G2	7100	E2	9331	B2
3216	A2	3506	F2	4309	H2	7110	G1	9335	A4
3218	B2	3507	G1	4315	C3	7150	C3	9336	E1
3230	B2	3508	G1	4316	B3	7200	A2	9338	C1
3231	C5	3509	H2	4320	B4	7300	A4	9339	C1
3270	A2	3510	G2	4321	B3	7330	C5	9340	B5
3275	A2	3511	G2	4322	B4	7333	C5	9385	D3
3276	A3	3512	G2	4323	B3	7340	C5		
		3513	F2	5031	I1	7350	C4		
		3514	G2	5040	E3	7351	D3		
				5200	A3	9065	D3		
				5250	A2	9076	D3		
				5251	B2	9080	D2		
						9081	B5		
						9083	B5		
						9084	F2		

PCS 43 412

BTSC stereo panel

U42	B1	3008	C2	3142	B1	4020	D2
U43	D1	3012	D2	3144	C2	4025	C2
2115	D2	3100	C1	3145	C1	4101	C2
2137	B1	3101	D2	3150	C1	4123	D1
2138	B1	3105	D2	3151	C1	6007	D2
2140	B1	3106	D2	3152	C1	6015	D2
2145	C2	3108	C2	3155	C1	6100	C2
2146	C1	3110	D2	3156	C1	6105	D2
2155	B2	3111	D2	3158	C2	6110	D2
2157	D1	3113	C2	3159	C2	6111	D2
2160	C2	3114	D2	3165	B2	7101	C2
2161	B1	3115	C1	3168	B2	7105	D2
2167	B2	3116	D1	3170	B2	7110	D2
2171	A2	3117	D1	3173	A2	7115	D2
2174	A2	3120	C2	3178	B2	7120	D1
2175	A2	3122	D1	3180	A1	7145	B2
2176	A2	3123	D1	3181	B1	9001	A2
2177	B1	3127	B2	3185	A1	9002	B2
2181	B1	3128	C2	3186	A1	9003	C2
2183	C1	3130	B1	3188	A2	9004	C2
2185	B2	3131	B1	3190	B1	9006	C1
2186	A2	3135	B1	3191	A1	9007	A1
2190	A1	3138	C2	3195	A1	9008	D1
2195	A1	3140	C1	3196	A1	9009	D1




I
NICAM SOUND MODULE
1205 NICAM BG: 5.85MHz NICAM I: 6.55MHz
ITEM 1205: 6.552MHz FOR NICAM I 5.85MHz FOR NICAM B/G
7200 TA8662N
VCO 5.824MHz
1275 5.824MHz
1220 NICAM BG: 5.85MHz NICAM I: 6.55MHz
QPSK demodulator
7300 CF70123
QPSK CLOCK
QPSK DATA
MUTEN
C4EN
DESCR.
FAW
RAM
VCO 16.384MHz
5.284MHz
NICAM decoder
NICAM 5V MUTE 0V
MUTE OUT
7040 PCF8574P
INTERRUPT LOGIC
READ
WRITE
I²C
VDD
VSS
SCL
SDA
7330 SAA7220P/C
ERFL
WS
CL
DAT
ERROR CORR
OSC
Digi
7110 TDA9820
1501 4.5MHz M
1502 5.5MHz B/G
1503 6.0MHz I
1504 6.5MHz D/K
1505 5.74MHz B/G STEREO
1506 6.74MHz D/K STEREO
7-STAGE LIMITER AMPL.
VCO 1
CONTROL UNIT
SUPPLY
7100 TDA8415
Stereo decoder
DE-MATRIX
IDENT.
DIV
LOGIC
1100 10MHz
NICAM L/M1
NICAM R/M2
DELETED FOR NON NICAM
7060 BC848C
7065 BC859B
7035 BC848
7030 BC858B
7031 2SD1266P
6100 BYD33
6031 LL4148
6030 BZV55 C5V6
6035 LLZ-C11
6312 BB405B
1031 630MA T
IF-IN
SCL
SDA
+12P
+12A
+10A
+8A
+5F
+5E
+5G
OUT L
OUT R
IF
+23
NC
B

**	PIN 9 7040	PIN 4 7040
STEREO	0V	0V
DUAL	0V	5V
MONO	5V	0V

REMARKS

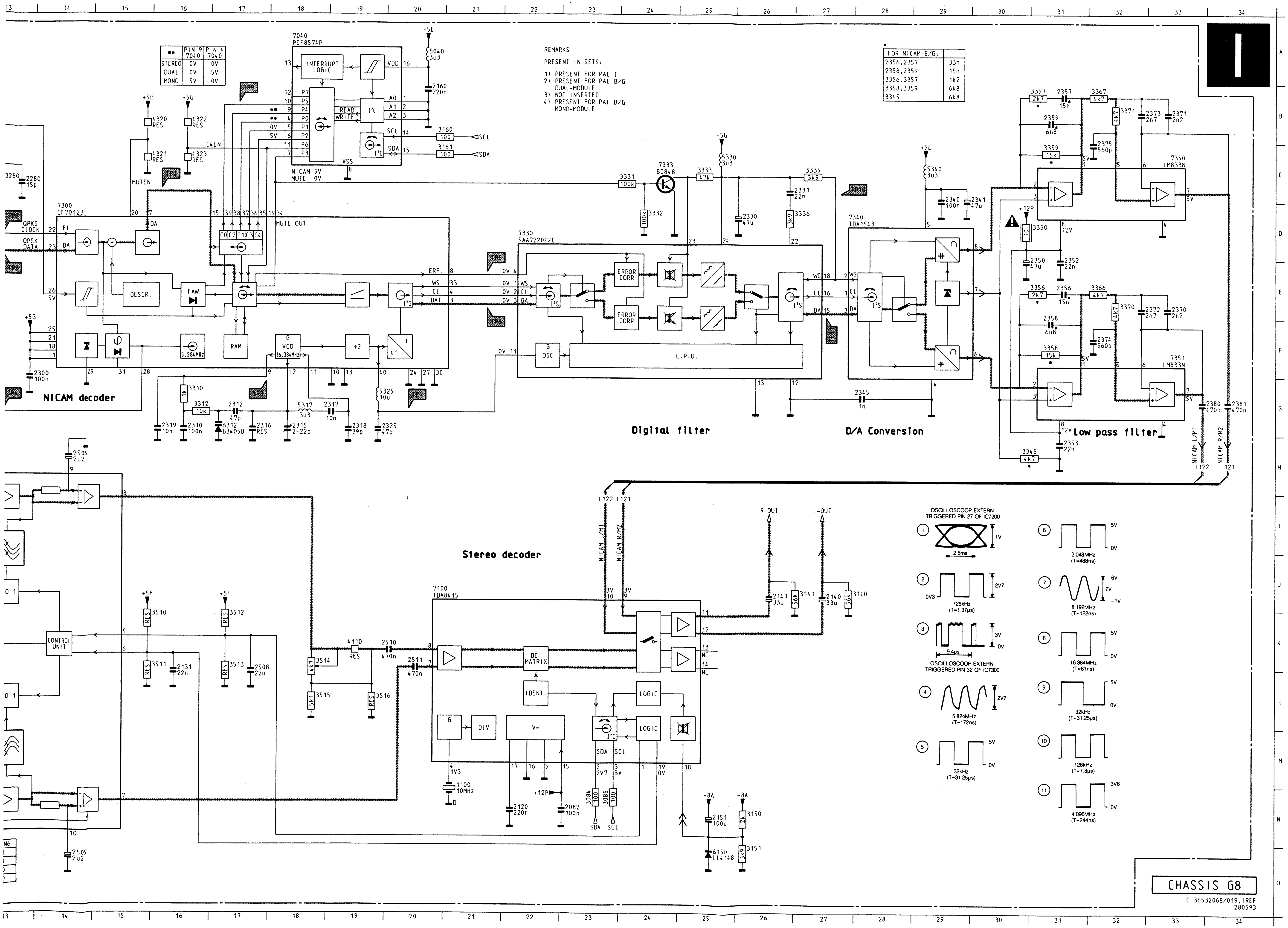
PRESENT IN SETS:

1) PRESENT FOR PAL I
2) PRESENT FOR PAL B/G DUAL-MODULE
3) NOT INSERTED
4) PRESENT FOR PAL B/G MONO-MODULE

	PIN5	PIN6
B/G	1	1
I	0	1
D/K	0	0
M	1	0

NOTE:
- ** DELETED FOR CHINA
- *** DELETED FOR NICAM B/G
- **** DELETED FOR INDONESIA

NICAM Stereo sound



I
7040
PCF8574P
INTERRUPT LOGIC
VDD
I²C
READ
WRITE
SCL
SDA
VSS
NICAM 5V
MUTE 0V
+5E
5040 3u3
2160 220n
3160 100
3161 100
TP9
+5G
4320 RES
4321 RES
4322 RES
4323 RES
C4EN
MUTEN
TP3
3280
2280 15p
7300
CF70123
QPKS CLOCK
QPSK DATA
TP2
TP3
FL
DA
MUTE OUT
C0 C2 C1 C3 C4
DESCR.
FAW
RAM
VCO 16.384MHz
5.284MHz
÷2
ERFL
WS
CL
DAT
TP5
TP6
TP4
TP8
TP7
+5G
2300 100n
NICAM decoder
3310 1k
3312 10k
2312 47p
6312 BB405B
2316 RES
2315 2-22p
5317 3u3
2317 10n
2318 39p
2319 10n
2310 100n
5325 10u
2325 47p
7333
BC848
3331 100k
3332 100k
3333 47k
+5G
5330 3u3
2330 47u
3335 3k9
2331 22n
3336 3k9
TP10
7330
SAA7220P/C
ERROR CORR
OSC
C.P.U.
Digital filter
7340
TDA1543
+5E
5340 3u3
2340 100n
2341 47u
2345 1n
D/A Conversion
+12P
3350 10
2350 47u
2352 22n
12V
3357 2k7
2357 15n
3367 4k7
3371 4k7
2373 2n7
2371 2n2
2359 6n8
2375 560p
3359 15k
7350
LM833N
3356 2k7
2356 15n
3366 4k7
3370 4k7
2372 2n7
2370 2n2
2358 6n8
2374 560p
3358 15k
7351
LM833N
2380 470n
2381 470n
2353 22n
3345 4k7
Low pass filter
NICAM L/M1
NICAM R/M2
I 122
I 121
2506 2u2
2505 2u2
CONTROL UNIT
+5F
3510 RES
3511 RES
2131 22n
3512 RES
3513 RES
2508 22n
3514 4k7
3515 5k1
4110 RES
3516 RES
2510 470n
2511 470n
Stereo decoder
7100
TDA8415
DE-MATRIX
IDENT.
LOGIC
DIV
V=
1100 10MHz
1V3
2120 220n
2082 100n
+12P
3084 100
3085 100
SDA
SCL
2V7
3V
R-OUT
L-OUT
2141 33u
3141 56k
2140 33u
3140 56k
+8A
2151 100u
3150 2k
3151 3k9
6150 LL4148
N6
OSCILLOSCOOP EXTERN TRIGGERED PIN 27 OF IC7200
① 1V 2.5ms
② 2V7 0V3 728kHz (T=1.37µs)
③ 3V 0V 9.4µs
OSCILLOSCOOP EXTERN TRIGGERED PIN 32 OF IC7300
④ 2V7 5.824MHz (T=172ns)
⑤ 5V 0V 32kHz (T=31.25µs)
⑥ 5V 0V 2.048MHz (T=488ns)
⑦ 6V 7V -1V 8.192MHz (T=122ns)
⑧ 5V 0V 16.384MHz (T=61ns)
⑨ 5V 0V 32kHz (T=31.25µs)
⑩ 128kHz (T=7.8µs)
⑪ 3V6 0V 4.096MHz (T=244ns)

**	PIN 9 7040	PIN 4 7040
STEREO	0V	0V
DUAL	0V	5V
MONO	5V	0V

REMARKS

PRESENT IN SETS:

1) PRESENT FOR PAL I
2) PRESENT FOR PAL B/G DUAL-MODULE
3) NOT INSERTED
4) PRESENT FOR PAL B/G MONO-MODULE

*

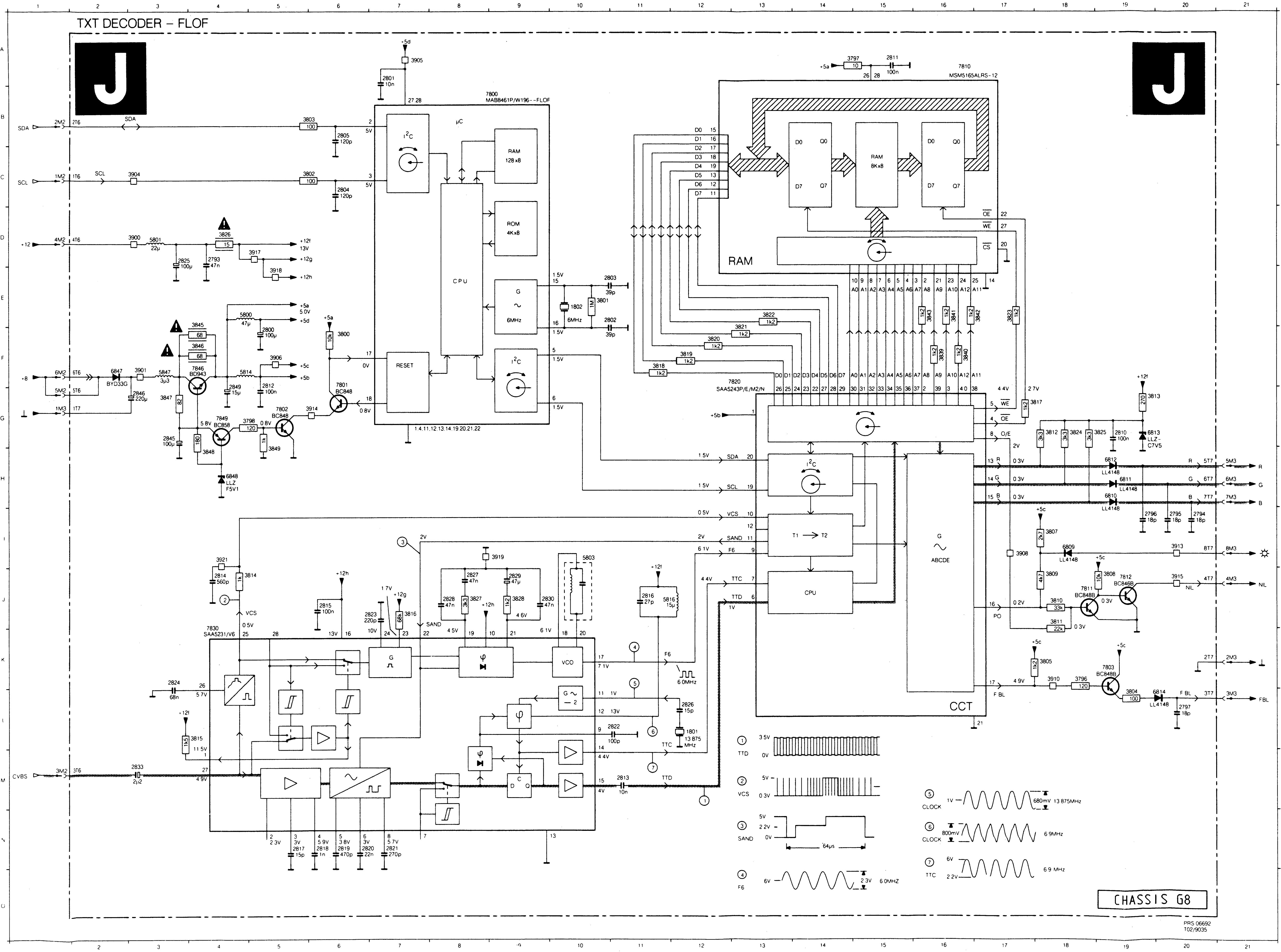
FOR NICAM B/G:	
2356,2357	33n
2358,2359	15n
3356,3357	1k2
3358,3359	6k8
3345	6k8

CHASSIS G8

CL 36532068/019.IREF
280593

TP1	B 7	2511	K20
TP1	B 9	3030	L 3
TP2	D13	3035	I 2
TP3	E13	3050	B 2
TP3	C16	3060	B 2
TP4	G13	3061	C 1
TP5	D21	3062	B 2
TP6	F21	3063	C 2
TP7	G20	3064	C 2
TP8	G17	3065	D 3
TP9	B17	3084	N23
TP10	C28	3085	N23
TP11	F27	3100	H 2
1031	K 3	3140	J27
1100	N21	3141	J27
1205	B 4	3150	N26
1206	A 4	3151	N26
1220	G 6	3160	B20
1275	A11	3161	C20
1501	H 7	3202	J 3
1502	J 7	3205	C 4
1503	K 7	3206	C 5
1504	L 7	3210	B 6
1505	M 7	3211	B 5
1506	N 7	3216	F 5
2020	I 1	3218	F 7
2021	I 2	3230	G 8
2030	N 3	3270	A10
2031	M 4	3275	B11
2032	N 4	3276	B12
2033	L 4	3280	C13
2034	N 5	3310	G16
2035	J 3	3312	G16
2050	B 1	3331	C24
2060	C 1	3332	D24
2061	D 2	3333	C25
2065	C 3	3335	C27
2066	C 3	3336	D26
2067	D 3	3345	H30
2071	D 2	3350	D31
2082	N23	3356	E31
2100	H 3	3357	B31
2120	N22	3358	F31
2131	L16	3359	C31
2140	J27	3366	E32
2141	J26	3367	B32
2151	N25	3370	E32
2160	B20	3371	B32
2200	G11	3501	I 6
2201	G12	3502	I 6
2202	J 3	3503	I 7
2203	J 4	3504	J 7
2206	C 5	3505	K 7
2210	B 6	3506	L 7
2211	B 5	3507	N 7
2216	G 5	3508	O 7
2217	F 6	3509	O10
2218	G 7	3510	K16
2220	G 5	3511	K16
2230	F 8	3512	K17
2231	G 8	3513	K17
2240	B 9	3514	K18
2241	F11	3515	L18
2242	F 9	3516	L19
2243	F 9	4110	K19
2250	B 8	4320	B15
2251	B 7	4321	C15
2260	F10	4322	B16
2261	F10	4323	C16
2263	B 9	5031	M 3
2270	B10	5040	A20
2271	B10	5200	F12
2275	B11	5250	B 8
2276	B11	5251	B 7
2277	B12	5300	N 4
2280	C13	5317	G18
2285	B 7	5325	G19
2290	C12	5330	C25
2291	E12	5340	C29
2300	G13	5501	M 5
2310	G16	6030	N 3
2312	G17	6031	M 3
2315	G18	6035	J 2
2316	G17	6100	H 2
2317	G19	6150	O25
2318	G19	6312	G17
2319	G16	7030	M 3
2325	G19	7031	N 3
2330	D26	7035	I 3
2331	C26	7040	A18
2340	C29	7060	C 2
2341	C29	7065	C 3
2345	G28	7100	J20
2350	E30	7110	H10
2352	E31	7200	C 6
2353	H31	7300	D14
2356	E31	7330	D22
2357	B31	7333	C24
2358	F31	7340	D27
2359	B31	7350	C33
2370	E33	7351	F33
2371	B33		
2372	E32		
2373	B32		
2374	F32		
2375	C32		
2380	G33		
2381	G34		
2501	I 6		
2502	O 9		
2503	M 5		
2504	O11		
2505	O14		
2506	H14		
2508	L17		
2510	K20		

Teletext panel


TXT DECODER – FLOF
J
SDA
SCL
+12
+8
CVBS
7800
MAB8461P/W196--FLOF
μC
I²C
RAM 128x8
ROM 4Kx8
CPU
G 6MHz
RESET
7810
MSM5165ALRS-12
RAM 8Kx8
RAM
7820
SAA5243P/E/M2/N
T1 → T2
G ABCDE
CCT
7830
SAA5231/V6
VCO
5803
1801 13.875 MHz
7846 BD943
7849 BC858
7802 BC848
7801 BC848
6847 BYD33G
6848 LLZ F5V1
6813 LLZ-C7V5
7811 BC848B
7812 BC846B
7803 BC848B
LL4148
R
G
B
NIL
FBL
TTD 3.5V 0V
VCS 5V 0.3V
SAND 5V 2.2V 0V 64μs
F6 6V 2.3V 6.0MHZ
CLOCK 1V 680mV 13.875MHz
CLOCK 800mV 6.9MHz
TTC 6V 2.2V 6.9 MHz
CHASSIS G8
PRS 06692
T02/9035

1801	L12
1802	E10
2793	D4
2794	I20
2795	I20
2796	I19
2797	L20
2800	F5
2801	A7
2802	E11
2803	E11
2804	C6
2805	B6
2810	G19
2811	A15
2812	G5
2813	M11
2814	J4
2815	J6
2816	J11
2817	N5
2818	N6
2819	N6
2820	N6
2821	N7
2822	L11
2823	J6
2824	K3
2825	D3
2826	L12
2827	J8
2828	J8
2829	J9
2830	J9
2833	M3
2845	G3
2846	G3
2849	G4
3796	K18
3797	A15
3798	G5
3800	F6
3801	E10
3802	C6
3803	B6
3804	L19
3805	K18
3807	I18
3808	J19
3809	J18
3810	J18
3811	J18
3812	G18
3813	G19
3814	J4
3815	L4
3816	J7
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3818	F11
3819	F12
3820	F12
3821	F13
3822	E13
3823	E17
3824	G18
3825	G18
3826	D4
3827	J8
3828	J9
3839	F16
3840	F16
3841	E16
3842	E17
3843	E16
3845	E4
3846	F4
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3848	H4
3849	H5
3900	D3
3901	F3
3904	C3
3905	A7
3906	F5
3908	I17
3910	K18
3913	I20
3914	G6
3915	J20
3917	D5
3918	E5
3919	I9
3921	I4
5800	E4
5801	D3
5803	I10
5814	F4
5816	J12
5847	F3
6809	I18
6810	H19
6811	H19
6812	H19
6813	G19
6814	L20
6847	F2
6848	H4
7800	B8
7801	F6
7802	G5
7803	K19
7810	A16
7811	J18
7812	J19
7820	F12
7830	K4
7846	F4
7849	G4

T6	A 4	3805	D 3	3919
T7	C 4	3807	D 2	3921
1801	F 3	3808	D 2	3922
1802	C 2	3809	D 2	5800
2792	E 1	3810	D 2	5801
2793	B 3	3811	D 2	5803
2794	C 3	3812	E 3	5814
2795	C 3	3813	E 4	5816
2796	C 4	3814	E 2	5834
2797	D 4	3815	F 2	5847
2798	E 1	3816	E 2	6809
2799	E 2	3817	D 2	6810
2800	B 3	3818	C 3	6811
2801	C 3	3819	C 3	6812
2802	C 2	3820	C 3	6813
2803	C 2	3821	C 2	6814
2804	B 3	3822	C 2	6820
2805	B 3	3823	C 2	6847
2810	E 4	3824	E 3	6848
2811	C 2	3825	E 3	6849
2812	D 1	3826	B 4	7800
2813	E 2	3827	E 3	7801
2814	E 2	3828	E 2	7802
2815	F 3	3829	E 2	7803
2816	F 4	3830	E 2	7810
2817	F 2	3831	E 2	7811
2818	F 2	3832	E 2	7812
2819	F 2	3833	E 1	7820
2820	F 3	3834	E 2	7830
2821	F 3	3835	E 2	7831
2822	F 3	3836	F 1	7832
2823	E 2	3837	E 1	7846
2824	E 2	3838	E 1	7849
2825	B 3	3839	C 2	8005
2826	F 3	3840	C 2	9800
2827	E 3	3841	C 2	9801
2828	E 3	3842	C 2	9802
2829	E 2	3843	D 2	9803
2830	E 3	3845	A 3	9804
2832	F 2	3846	B 3	9805
2833	F 1	3847	A 3	
2834	F 1	3848	B 2	
2836	E 2	3849	B 3	
2845	B 2	3900	B 4	
2846	C 4	3901	B 3	
2849	B 2	3904	B 3	
3795	D 3	3905	C 4	
3796	D 3	3906	D 1	
3797	C 2	3908	D 2	
3798	C 3	3910	D 3	
3800	C 2	3913	D 3	
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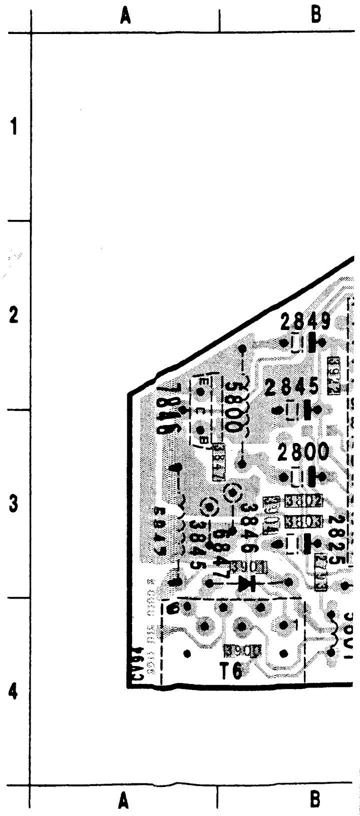
3804	D 3	3918	F 3	


A
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2845
2800
5800
3846
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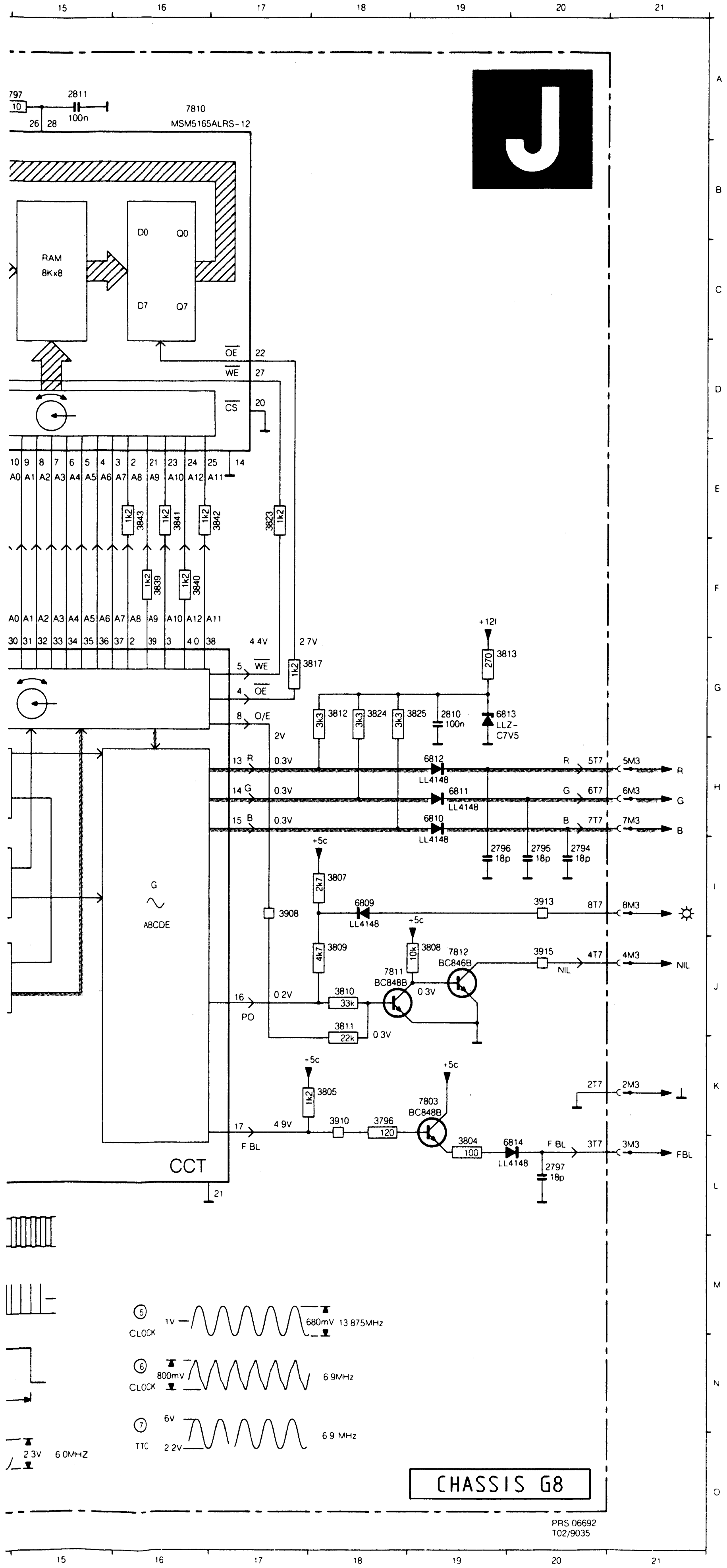
3901
T6

Teletext panel


J
7810
MSM5165ALRS-12
RAM 8Kx8
D0
Q0
D7
Q7
OE
WE
CS
CCT
G
ABCDE
3812
3824
3825
2810 100n
3813
6813 LLZ-C7V5
6812 LL4148
6811 LL4148
6810 LL4148
2796 18p
2795 18p
2794 18p
3807
6809 LL4148
3913
3909
3808
7812 BC846B
3915
NIL
7811 BC848B
3810 33k
3811 22k
3805
3910
3796 120
7803 BC848B
3804 100
6814 LL4148
2797 18p
3823
3817
3908
R
G
B
FBL
5M3
6M3
7M3
8M3
4M3
2M3
3M3
⑤ CLOCK 1V 680mV 13.875MHz
⑥ CLOCK 800mV 6.9MHz
⑦ TTC 6V 2.2V 6.9 MHz
2.3V 6.0MHZ
CHASSIS G8
PRS 06692
T02/9035

1801	L12
1802	E10
2793	D4
2794	I 20
2795	I 20
2796	I 19
2797	L20
2800	F5
2801	A7
2802	E11
2803	E11
2804	C6
2805	B6
2810	G19
2811	A15
2812	G5
2813	M11
2814	J4
2815	J6
2816	J11
2817	N5
2818	N6
2819	N6
2820	N6
2821	N7
2822	L11
2823	J6
2824	K3
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3798	G5
3800	F6
3801	E10
3802	C6
3803	B6
3804	L19
3805	K18
3807	I 18
3808	J19
3809	J18
3810	J18
3811	J18
3812	G18
3813	G19
3814	J4
3815	L4
3816	J7
3817	G17
3818	F11
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3820	F12
3821	F13
3822	E13
3823	E17
3824	G18
3825	G18
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3840	F16
3841	E16
3842	E17
3843	E16
3845	E4
3846	F4
3847	G3
3848	H4
3849	H5
3900	D3
3901	F3
3904	C3
3905	A7
3906	F5
3908	I 17
3910	K18
3913	I 20
3914	G6
3915	J20
3917	D5
3918	E5
3919	I 9
3921	I 4
5800	E4
5801	D3
5803	I 10
5814	F4
5816	J12
5847	F3
6809	I 18
6810	H19
6811	H19
6812	H19
6813	G19
6814	L20
6847	F2
6848	H4
7800	B8
7801	F6
7802	G5
7803	K19
7810	A16
7811	J18
7812	J19
7820	F12
7830	K4
7846	F4
7849	G4

T6	A 4	3805	D 3	3919	E 2
T7	C 4	3807	D 2	3921	E 2
1801	F 3	3808	D 2	3922	B 2
1802	C 2	3809	D 2	5800	B 2
2792	E 1	3810	D 2	5801	B 4
2793	B 3	3811	D 2	5803	E 3
2794	C 3	3812	E 3	5814	C 1
2795	C 3	3813	E 4	5816	E 4
2796	C 4	3814	E 2	5834	E 1
2797	D 4	3815	F 2	5847	A 3
2798	E 1	3816	E 2	6809	D 3
2799	E 2	3817	D 2	6810	E 4
2800	B 3	3818	C 3	6811	E 4
2801	C 3	3819	C 3	6812	E 4
2802	C 2	3820	C 3	6813	E 3
2803	C 2	3821	C 2	6814	D 3
2804	B 3	3822	C 2	6820	C 3
2805	B 3	3823	C 2	6847	B 3
2810	E 4	3824	E 3	6848	B 2
2811	C 2	3825	E 3	6849	C 3
2812	D 1	3826	B 4	7800	B 3
2813	E 2	3827	E 3	7801	C 2
2814	E 2	3828	E 2	7802	C 3
2815	F 3	3829	E 2	7803	D 3
2816	F 4	3830	E 2	7810	D 2
2817	F 2	3831	E 2	7811	D 2
2818	F 2	3832	E 2	7812	D 2
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2829	E 2	3843	D 2	9803	D 3
2830	E 3	3845	A 3	9804	C 3
2832	F 2	3846	B 3	9805	D 3
2833	F 1	3847	A 3		
2834	F 1	3848	B 2		
2836	E 2	3849	B 3		
2845	B 2	3900	B 4		
2846	C 4	3901	B 3		
2849	B 2	3904	B 3		
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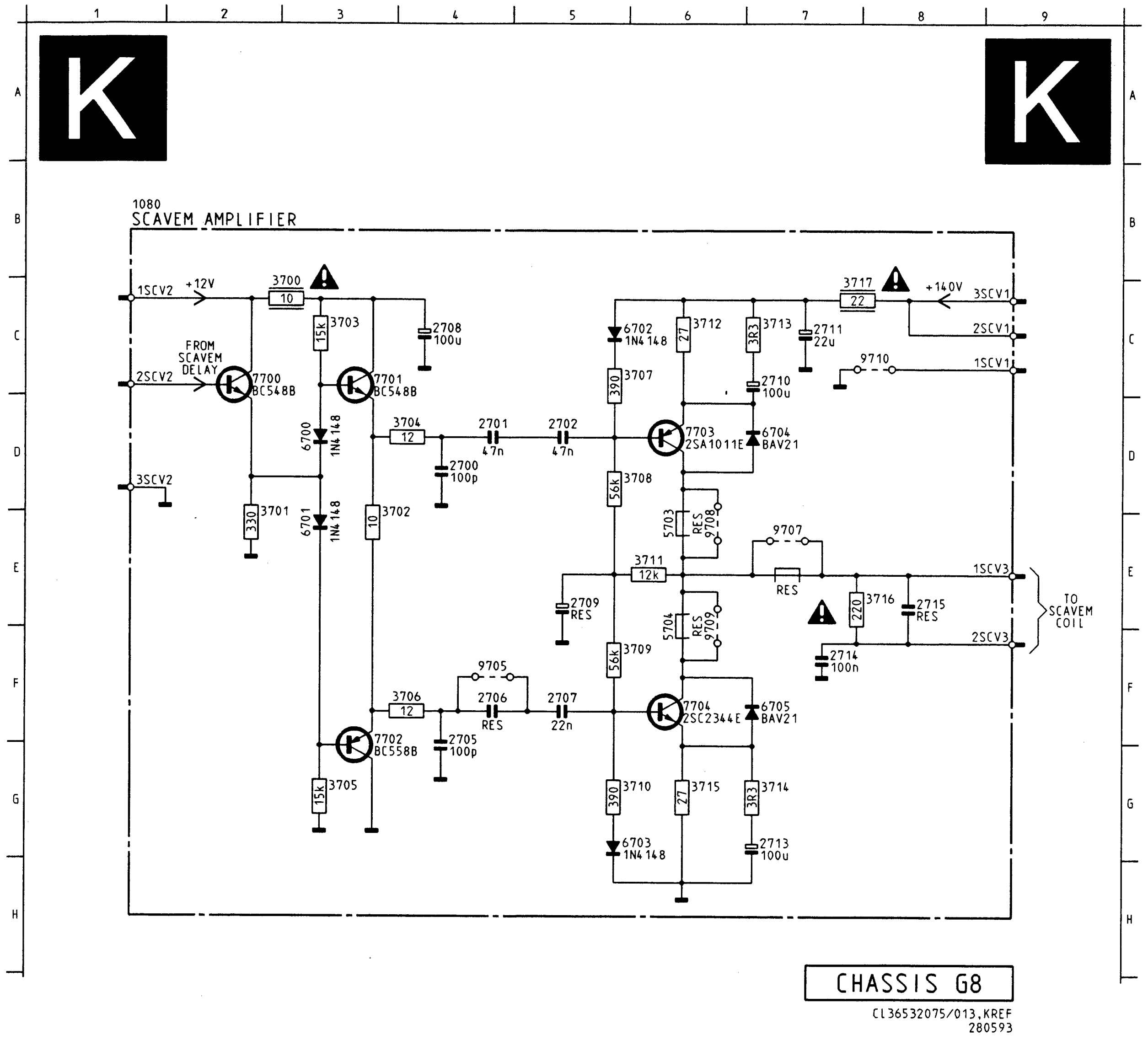
3797	C 2	3908	D 2		
3798	C 3	3910	D 3		
3800	C 2	3913	D 3		
3801	C 2	3914	C 2		
3802	B 3	3915	D 3		
3803	B 3	3917	E 3		
3804	D 3	3918	F 3		


K
K
1080
SCAVEM AMPLIFIER
1SCV2
+12V
3700 10
3703 15k
2708 100u
FROM SCAVEM DELAY
2SCV2
7700 BC548B
7701 BC548B
6700 1N4148
6701 1N4148
3704 12
2701 47n
2702 47n
2700 100p
3SCV2
3701 330
3702 10
3706 12
2706 RES
2707 22n
2705 100p
9705
7702 BC558B
3705 15k
3717 22
+140V
3SCV1
2SCV1
1SCV1
6702 1N4148
3712 27
3713 3R3
2711 22u
9710
3707 390
2710 100u
7703 2SA1011E
6704 BAV21
3708 56k
5703 RES
9708 RES
9707
3711 12k
RES
1SCV3
2709 RES
5704 RES
9709 RES
3716 220
2715 RES
TO SCAVEM COIL
2714 100n
2SCV3
3709 56k
7704 2SC2344E
6705 BAV21
3710 390
3715 27
3714 3R3
6703 1N4148
2713 100u
CHASSIS G8

CL 36532075/013.KREF
280593

1080	B 1
2700	D 4
2701	D 4
2702	D 5
2705	G 4
2706	F 4
2707	F 5
2708	C 4
2709	E 5
2710	C 7
2711	C 7
2713	G 7
2714	F 7
2715	E 8
3700	C 3
3701	D 2
3702	D 3
3703	C 3
3704	D 4
3705	G 3
3706	F 4
3707	C 5
3708	D 5
3709	F 5
3710	G 5
3711	E 6
3712	C 6
3713	C 7
3714	G 7
3715	G 6
3716	E 7
3717	C 7
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5704	E 6
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6703	G 5
6704	D 7
6705	F 7
7700	C 2
7701	C 3
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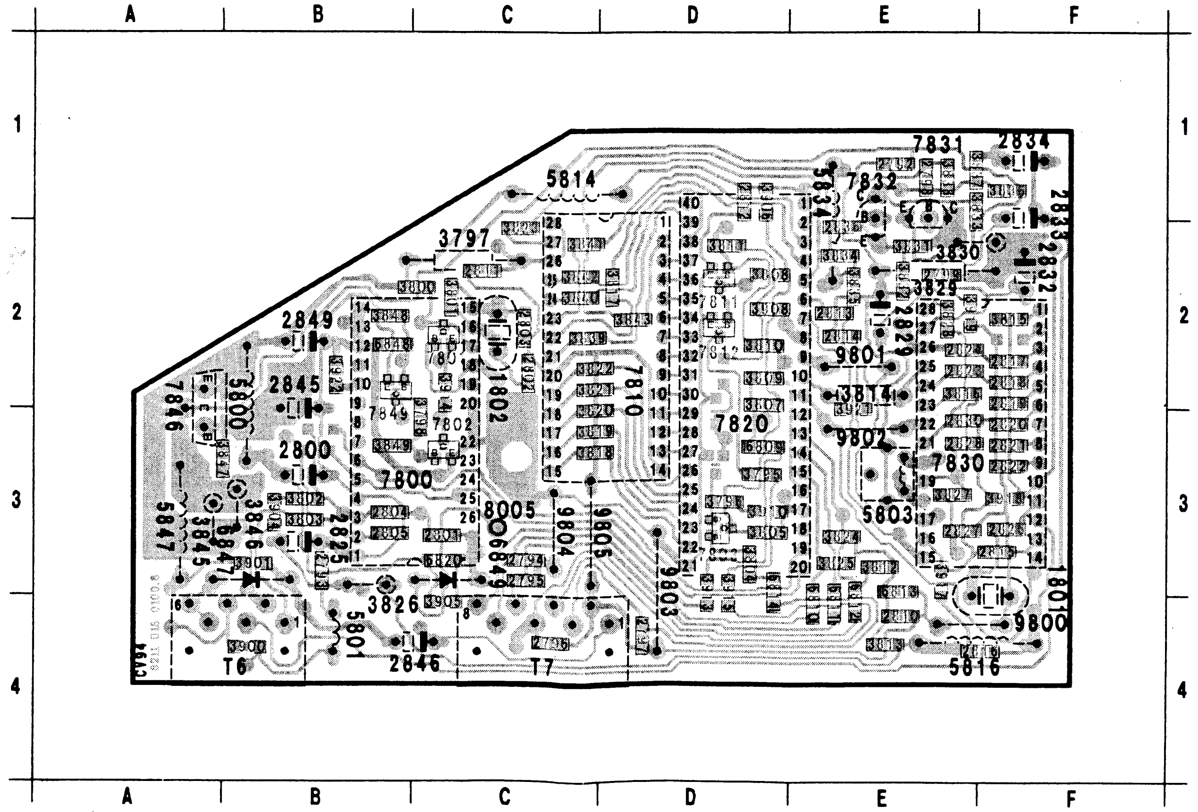
7703	D 6
7704	F 6
9705	F 4
9707	E 7
9708	E 6
9709	E 6
9710	C 8


A
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C
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F
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7831
2834
7832
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3797
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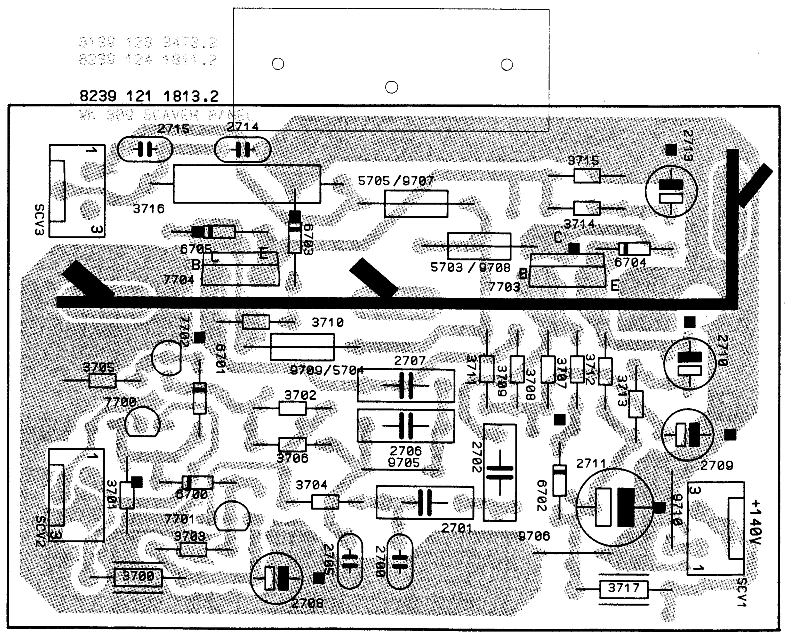
3829
2829
2849
2845
3800
7846
2800
7849
7802
1802
7810
7800
8005
9801
3814
9802
7820
7830
5603
3826
3801
2846
T6
T7
5816
1801
9800
9803
9804
9805
3846
3847
3845
5847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8239 124 1911.2
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WK 309 SCAVEM PANEL
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3714
8715
2713
SCV3
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6703
7704
5705/9707
5703/9708
3714
7703
6704
3710
9709/5704
2707
2710
3705
7702
3702
2706
9705
2702
3711
3709
3708
3707
3712
3713
2709
7700
3706
3704
6700
6702
2711
SCV2
3701
7701
3703
2701
9706
9710
+140V
SCV1
3700
2705
2708
3717

7. Electrical Adjustments

Note: Where the adjustment mention a generator signal, colour pattern generator PM5518 has been used.

1. Settings on the large signal panel.

1.1 +140V power supply voltage

Connect a voltmeter (DC) across C2152. Adjust potentiometer 3142 to +140V ± 1V.

1.2 Picture width

Is adjusted with potentiometer 3987.

1.3 Vertical centring

Is adjusted with switch LS1.

1.4 East-West correction (Pin-cushion)

Is adjusted with R3991

1.5 Focusing

Is adjusted with the focusing potentiometer in the line output transformer. Using a cross-hatch pattern adjust the focus so that the haze on the vertical lines at 2/3 position from the left and right edges of the screen just disappeared.

1.6 VG2 Setting

The cut-off of the picture tube is measured by the video controller. This is done using one measuring pulse for each colour channel at the beginning of each field. To set the VG2, these measuring pulses must be measured with an oscilloscope (fig. 7.1).
Supply an aerial signal.
Set the contrast to maximum and the brightness and saturation to nominal.
Using an oscilloscope set to 1ms/div measure the DC level of the measuring pulses on the cathodes of R, G and B of the picture tube.

For 25":
Using the VG2 potentiometer on the Line output Transformer, adjust the lowest of these pulses to 140V.

For 29":
Using the VG2 potentiometer on the Line output Transformer, adjust the lowest of these pulses to 170V

2. Settings on the small signal panel

2.1 Stable OSD synchronization

Apply an aerial signal.
Adjust potentiometer 3750 until the picture is synchronised.

2.2 Horizontal synchronization

Short circuit pin 5 of IC7705 to ground.
Apply an aerial signal.
Adjust potentiometer 3723 until the picture is straight.
Remove the short circuit.

2.3 Horizontal centring

Set the brightness and contrast control to nominal. Adjust with potentiometer 3733.

2.4 Picture height

Is adjusted with potentiometer 3741.

2.5 RF AGC

If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3361 until the picture shows no distortion.

2.6 Chroma filter

For PAL Multi sets 4.43 MHz
Connect a colour bar signal according to the PAL standard.
Connect probe to pin 7 of IC7424.
Adjust L5423 for minimum amplitude of the 4.43MHz signal on the luminance steps.

For NTSC only sets 3.58MHz
Connect a colour bar signal according to the NTSC standard.
Connect probe to pin 7 of IC7424.
Adjust L5423 for minimum amplitude of the 3.58 signal on the luminance steps.

2.7 Chroma band-pass filter

For sets with SECAM
Circuit "Cloche": 4.286MHz (only sets with SECAM)
Use a signal generator which can generate a 4.286 MHz sinewave (or use the subcarrier output of a TV-pattern generator (e.g. PM5515)).
Connect this signal to pin 20 of EXT1 and select EXT1.
Connect an oscilloscope to pin 15 of IC7365.
Adjust L5460 until there is maximum chrominance signal.

For PAL sets
Use a signal generator which can generate a 4.43 MHz sinewave (or use the subcarrier output of a TV-pattern generator (e.g. PM5515)).
Connect this signal to pin 20 of EXT1 and select EXT1.
Connect an oscilloscope to pin 15 of IC7365.
Adjust L5460 until there is maximum chrominance signal.

For NTSC only sets
Use a signal generator which can generate a 3.58 MHz sinewave (or use the subcarrier output of a TV-pattern generator (e.g. PM5515)).
Connect this signal to pin 20 of EXT1 and select EXT1.
Connect an oscilloscope to pin 9 of IC7364.
Adjust L5460 until there is maximum chrominance signal.

2.8 Subcarrier oscillator

For PAL/SECAM sets (TDA4650)
Apply a PAL colour signal with 4.43Mhz subcarrier.
Connect point 17 of IC7365 to ground. Adjust C2490 until the colour is practically stable.
Remove the interconnection.

For MULTI system sets (TDA4650)
Apply a PAL colour signal with 4.43Mhz subcarrier.
Connect point 17 of IC7365 to ground. Adjust C2490 until the colour is practically stable.
Remove the interconnection.
Apply a NTSC colour signal with 3.58Mhz subcarrier.
Connect point 17 of IC7365 to ground. Adjust C2491 until the colour is practically stable.
Remove the interconnection.

For NTSC only sets (TDA4570)
Apply a NTSC colour signal with 3.58Mhz subcarrier.
Connect point 11 of IC7364 to ground. Adjust C2490 until the colour is practically stable.
Remove the interconnection.

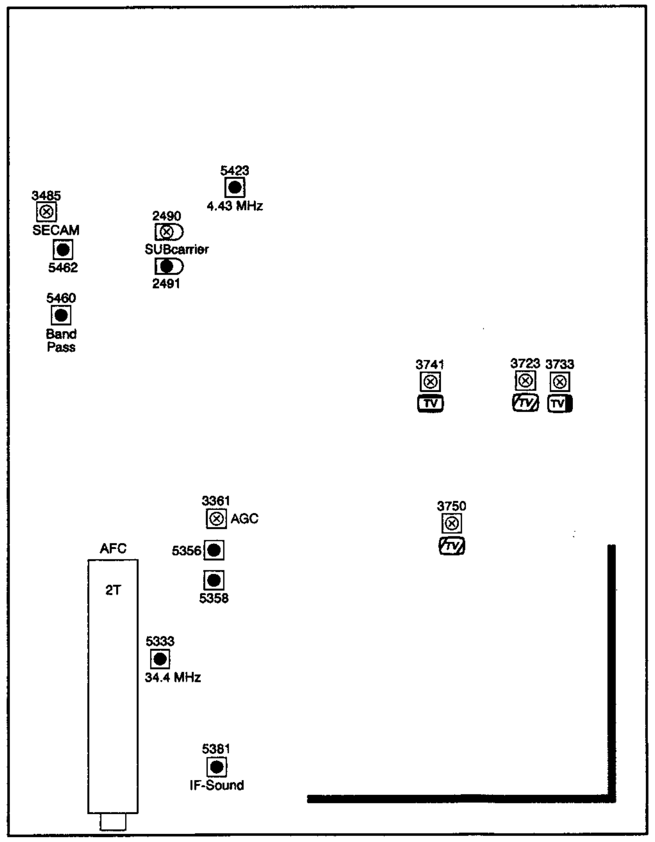
2.9 SECAM demodulators for PAL/SECAM sets (TDA4650)

Connect a pattern generator and supply a SECAM black pattern. Connect a probe to pin 3 (B-Y) of IC7365 (channel A). Connect a probe to pin 1 (R-Y) IC7365 (channel B). Turn R3485 fully clockwise. Set L5462 to minimum amplitude of the B-Y signal (channel A). Set R3485 to minimum amplitude of the R-Y signal (channel B).
Repeat these settings of L5462 and R3485 for optimal performance.

2.10 The picture demodulator

Connect a signal generator (e.g. PM5326) as shown in Fig. 7.2 and adjust it for a frequency of * MHZ (see table). Modulate (AM) the signal with for instance 1 kHz. **Desolder capacitor C2334 at one side.** Connect an oscilloscope to pin 2 of connector M3 and adjust 5358 for a maximum distortion free signal. Ensure that the demodulator is not overloaded. Remove all interconnections.

Version	IF-frequency
/65,/67,/68,/69,/79	38,9MHz
/56	38,9MHz
/75	36,875MHz
/57	39,5MHz
/58	38,0MHz



2.11 Alignment of I.F.-response curve (/56/65/67/68 only)

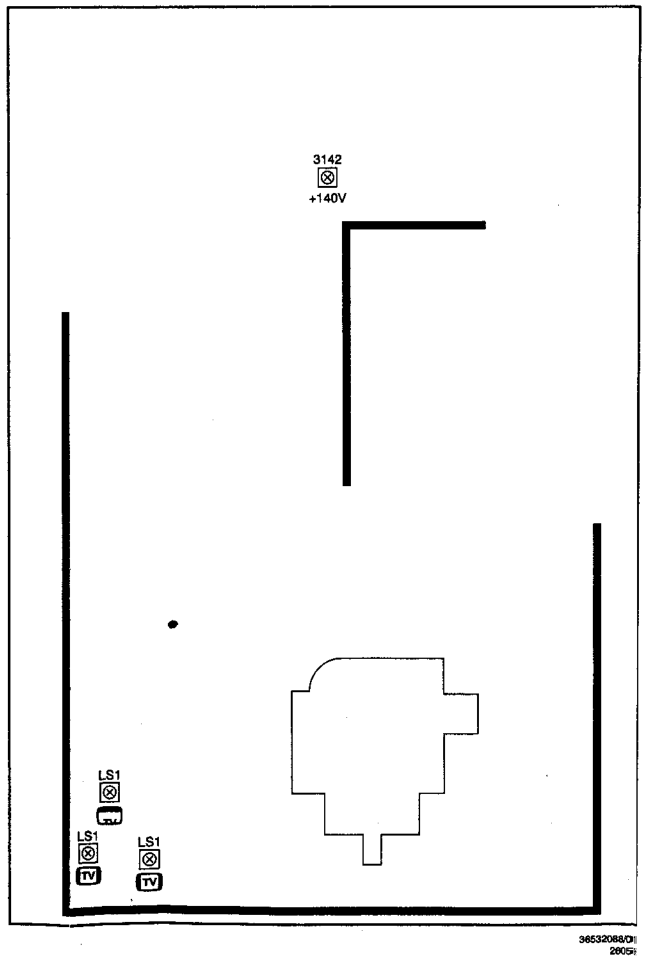
Inject a signal of 37.4 Mhz (100mV) via a capacitor of 1nF to point 17 of tuner 1301. Measure the output at pin 1 of sawfilter 1335. Reduce the output frequency of the generator to 34.4 Mhz. Adjust coil 5333 for an output of -18dB ± 0.5dB (12,5 %) with relation to the output voltage measured at 37.4Mhz.

2.12 AFC

Connect a D.C. voltmeter to pin 2 of connector M3. Connect a signal generator as shown in Fig. 7.2. Set the signal generator to *MHz (see table I) and adjust coil 5356 for a voltage of 6.0V ±0.2V.

2.13 IF-Sound

Connect a signal generator (e.g. PM5326) as indicated in Fig. 7.3 and adjust it for a frequency of 38,9 Mhz (38.0 Mhz for /93). Modulate (AM) the signal with for instance 1 kHz. Connect an oscilloscope to pin 12 of IC7380 and adjust 5381 for a minimum amplitude. Ensure that the demodulator is not overloaded.



Electr

3. Set

3.1 Dua
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2.9 SECAM demodulators for PAL/SECAM sets (TDA4650)

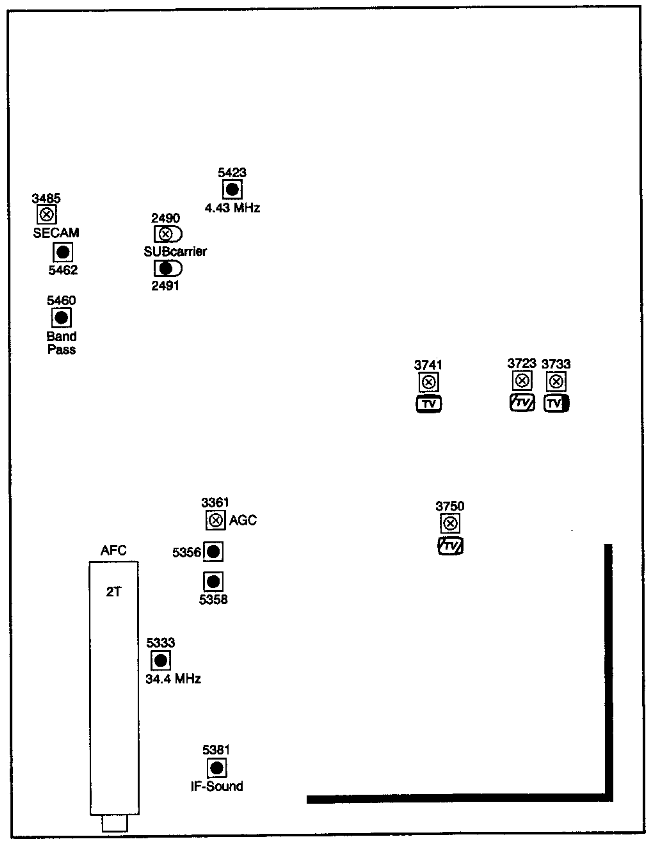
Connect a pattern generator and supply a SECAM black pattern. Connect a probe to pin 3 (B-Y) of IC7365 (channel A). Connect a probe to pin 1 (R-Y) IC7365 (channel B). Turn R3485 fully clockwise. Set L5462 to minimum amplitude of the B-Y signal (channel A). Set R3485 to minimum amplitude of the R-Y signal (channel B).

Repeat these settings of L5462 and R3485 for optimal performance.

2.10 The picture demodulator

Connect a signal generator (e.g. PM5326) as shown in Fig. 7.2 and adjust it for a frequency of * MHZ (see table). Modulate (AM) the signal with for instance 1 kHz. **Desolder capacitor C2334 at one side**. Connect an oscilloscope to pin 2 of connector M3 and adjust 5358 for a maximum distortion free signal. Ensure that the demodulator is not overloaded. Remove all interconnections.

Version	IF-frequency
/65,/67,/68,/69,/79	38,9MHz
/56	38,9MHz
/75	36,875MHz
/57	39,5MHz
/58	38,0MHz



2.11 Alignment of I.F.-response curve (/56/65/67/68 only)

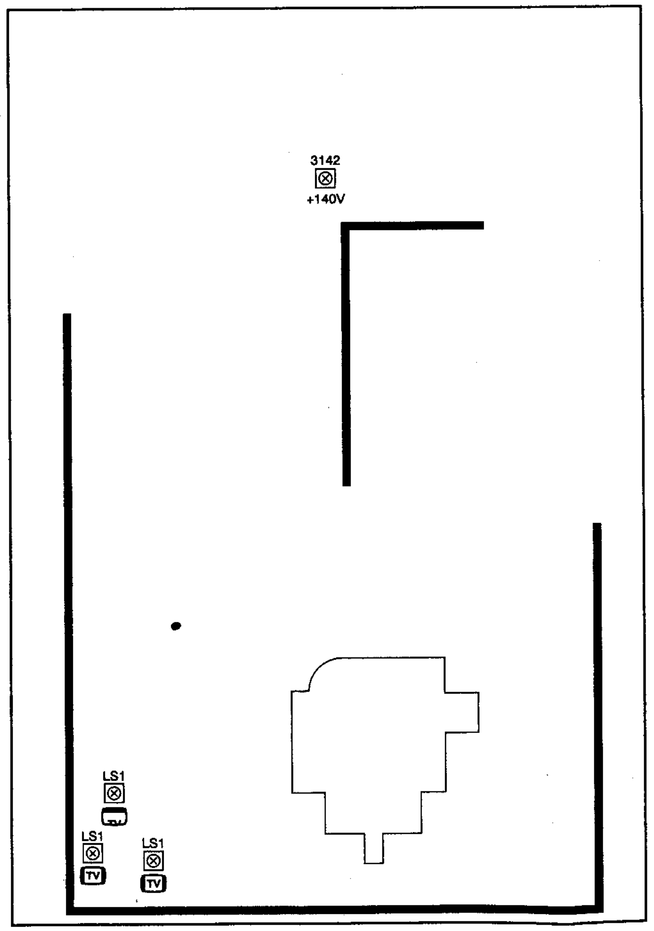
Inject a signal of 37.4 Mhz (100mV) via a capacitor of 1nF to point 17 of tuner 1301. Measure the output at pin 1 of sawfilter 1335. Reduce the output frequency of the generator to 34.4 Mhz. Adjust coil 5333 for an output of -18dB ± 0.5dB (12,5 %) with relation to the output voltage measured at 37.4Mhz.

2.12 AFC

Connect a D.C. voltmeter to pin 2 of connector M3. Connect a signal generator as shown in Fig. 7.2. Set the signal generator to *MHz (see table I) and adjust coil 5356 for a voltage of 6.0V ±0.2V.

2.13 IF-Sound

Connect a signal generator (e.g. PM5326) as indicated in Fig. 7.3 and adjust it for a frequency of 38,9 Mhz (38.0 Mhz for /93). Modulate (AM) the signal with for instance 1 kHz. Connect an oscilloscope to pin 12 of IC7380 and adjust 5381 for a minimum amplitude. Ensure that the demodulator is not overloaded.



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Electrical Adjustments

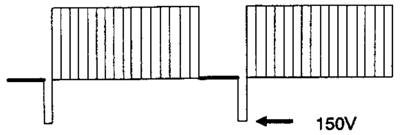


Fig.7.1

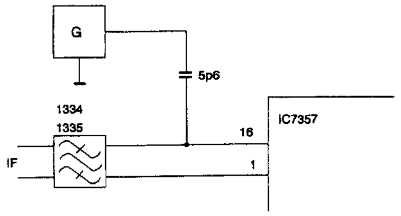


Fig.7.2

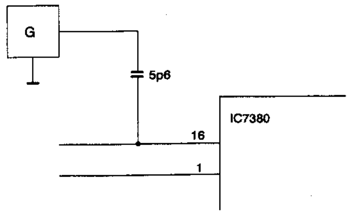


Fig.7.3

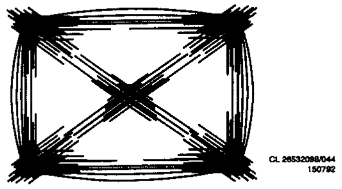


Fig.7.4

3. Settings on the mono sound module

3.1 Dual mono sound circuit

Apply transmitter or generator signal, of which the sound carrier (PAL B,G 5,5 MHz) is modulated with one frequency (for instance 1kHz). Next adjust 5141 towards minimum interference in the sound (=maximum AM suppression). Apply transmitter or generator signal, of which the sound carrier (PAL D,K 6,5 Mhz) is modulated with one frequency (for instance 1kHz). Next adjust 5140 towards minimum interference in the sound (= maximum AM suppression). If there is no interference present in the sound it may be generated with a collector motor of which the interference is not suppressed.

3.2 Multi sound circuit

Apply a generator or transmitter signal with 5.5 Mhz picture-sound distance.

Next apply 12V DC to pin 14 of IC7112 via a resistor of 470kΩ.

Measure pin 8 of IC7112 voltage as V1 volt (DC). Then disconnect the 12V and the resistor. Now adjust R3122 such that the voltage at pin 8 of IC7112 is again V1 volt (DC). Adjust L5140 for an output voltage of 8V at pin 7 of IC7129.

3.3 PAL B/G mono sound

Apply a generator or transmitter signal, of which the sound carrier (PAL B/G 5,5MHz) is modulated with one frequency (for instance 1kHz). Next adjust 5140 towards minimum interference in the sound (=maximum AM suppression).

4 Settings on the stereo sound module

Note: Where the adjustment mention a generator signal, colour pattern generator PM5515 has been used.

4.1 The 5,5 Mhz (6,5 Mhz for /93) sound section

Apply a generator signal (PAL) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz. Set the generator to the mono mode and adjust 5211 for a minimum interference in the sound. Or measure with an oscilloscope at pin 4 IC7206 (oscilloscope in the AC mode) and adjust 5211 for a maximum amplitude.

4.2 The 5,742Mhz (6,742 Mhz for /93) sound section

a. Apply a generator signal (PAL) with two sound carriers, of which the sound carriers have been modulated with a frequency (e.g. 1 kHz) and the second sound carrier has been provided with the pilot signal for the 2nd language. Select II by means of the remote control.

b. Next adjust 5206 for a minimum interference in the sound. Or measure with an oscilloscope at pin 5 IC7206 (oscilloscope in mode AC) and adjust 5206 for maximum amplitude.

4.3 Pilot tone adjustment

Apply a generator signal as in point 2a. Adjust 5233 so that the set switches over well between language I and language II (pilot tone = 54,688 kHz).

4.4 Stereo matrix

Apply a generator signal and set the generator to the stereo mode and modulate the (R) right channel with 1kHz. Connect an oscilloscope to pin 20 IC7236 and adjust 3240 for a minimum amplitude.

4.5 117,5 Hz active filter (stereo filter)

Apply a generator signal and set the generator to the stereo mode. Both sound carriers are unmodulated. Connect an oscilloscope to pin 23 IC7236 and adjust 3244 for a maximum amplitude.

4.6 274,1 Hz active filter (2nd language filter)

Apply a generator signal with 2 sound carriers which are unmodulated. (Generator in the DUAL mode) Connect an oscilloscope to pin 2 of IC7236 and adjust 3257 for a maximum amplitude.

Electrical Adjustments

5. Settings on the NICAM sound module

5.1 The 5,5 Mhz(6,0 Mhz for /57) sound section

Apply a generator signal (PM5515) and set the generator to the mono mode. Sound carrier M1 has to be modulated with a frequency of 1 kHz. Adjust 5075 for a minimum interference in the sound. Or measure with an oscilloscope at pin 4 of IC7070 (oscilloscope in the AC mode) and adjust 5075 for a maximum amplitude.

5.2 The 5,742 Mhz sound section

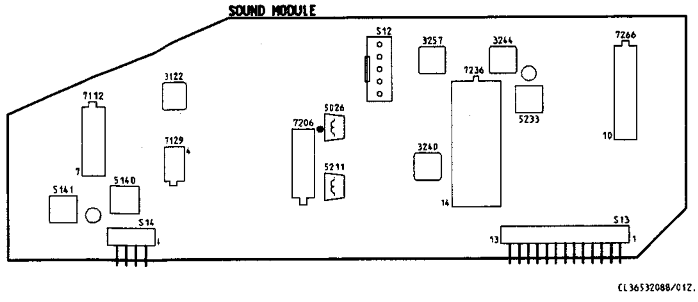
Apply a generator signal (PM5515) and set the generator to the dual mode. Sound carrier M2 (R) has to be modulated with a frequency of 1 kHz. Select language II on the set by means of the remote control. Adjust 5075 for a minimum interference in the sound. Or measure with an oscilloscope at pin 5 of IC7070 (oscilloscope in mode AC) and adjust 5085 for maximum amplitude.

5.3 Stereo matrix

Apply a generator signal (PM5515) and set the generator to the stereo mode. Sound carrier M2 has to be modulated with a frequency of 1 kHz. Connect an oscilloscope to pin 14 of IC7100 and adjust 3105 for a minimum amplitude.

5.4 The NICAM demodulator

Apply an aerial or generator signal provided with a NICAM sound signal. Connect an oscilloscope in X-Y operation to pins 19 and 20 of IC7200 (which signal is used as X or as Y drive is immaterial). Adjust the oscilloscope for a sensitivity (both X and Y) of 1 V/div AC. Adjust the X and Y position so that the cross pattern is situated in the centre of the oscilloscope picture. Adjust 2220 for a straight cross pattern (see Fig. 7.4).



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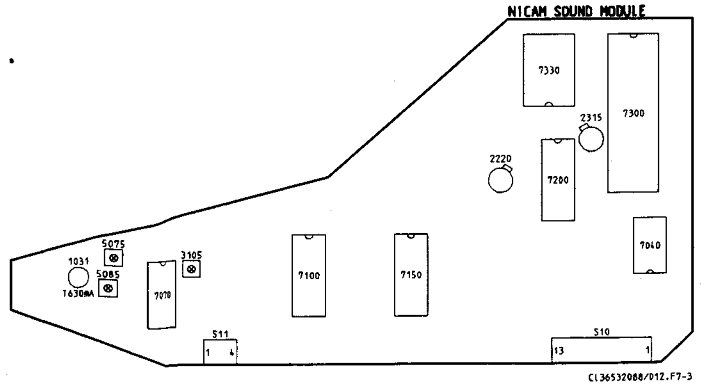

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5.5 The NICAM sample clock oscillator

Apply an aerial or generator signal provided with a NICAM sound signal. Connect an oscilloscope to pin 9 of IC7300. Adjust the oscilloscope for a sensitivity of 1 V/div and a time base of 2 µsec/div. Adjust 2315 for a still and symmetric square wave (50% duty cycle).

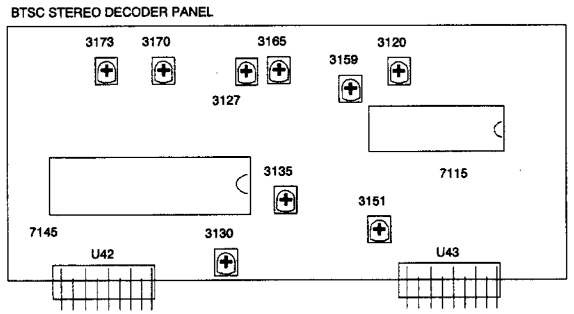


Fig.7.5

6. Electrical settings on the BTSC stereo decoder panel (See Fig. 7.4)

Note:The adjustments below require a Leader Model LMS-238P or equivalent.

6.1 baseband level adustment

Set the generator as follows:
Mode Switch set to L+R, Internal Frequency set to 300Hz., SAP off, Pilot Off & Level control pushed in.
Connect an AC Millivolt Meter to pin 1 of IC7145. Adjust R3151 to obtain a reading of 17mV RMS (+/- 1mV)

6.2 VCO Free Run

Connect a Frequency counter to Pin 7 of IC7145.
Feed no signal into the tuner input.
Set the receiver in SAP mode.
Adjust R3130 to obtain a reading of 15,734 Hz (+/- 50Hz) on the frequency Counter.

6.3 Pilot cancelation

Connect an Audio Frequency Generator to pin 1 of IC7145 via a 10µF.,25V, Electrolytic Capacitor (plus side of capacitor to pin 1).
Put the receiver in stereo mode.
Adjust the Audio Frequency Generator for 15734 Hz. at 500mV RMS.
Connect an AC Millivolt Meter to Pin 7 of IC7145.
Adjust R3135 for minimum reading on the meter.
Adjust R3159 for minimum reading on the meter.
Adjust R3135 for minimum reading on the meter.

6.4 300Hz Seperation

Set the Generator as follows.
Mode Switch set to R Ch., Internal Frequency set to 300Hz, SAP On, Pilot On & Level Control pushed in.
Connect an AC Millivolt Meter to Pin 24 of IC7145.
Adjust R3127 for null reading on the meter.

6.5 3kHz Separation

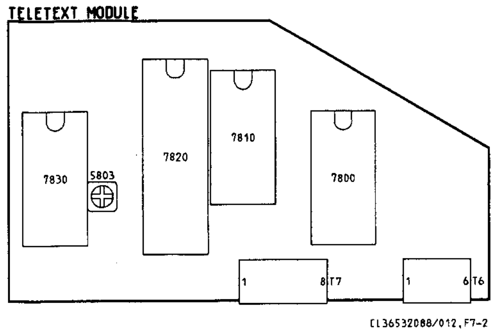
Set the Generator as follows.
Mode Switch set to R Ch., Internal Frequency set to 3kHz, SAP On, Pilot On & Level Control pushed in.
Connect an AC Millivolt Meter to Pin 24 of IC7145.
Adjust R3170 for null reading on the meter.

6.6 SAP Level alignment

Set the generator to SAP mode.
Measure with an oscilloscope at pen 24 of IC7145.
Adjust R3165 for a reading of 530 mV.

7. Settings on the TXT Panel

Connect pin 22 of IC7830 to ground. Connect a frequency counter to pin 17 of IC7830 and adjust 5803 for 6,000 Mhz ± 30 kHz.



CL36532088/012.F7-2

8. Adjustments via the service menu (in the Service Mode, see chapter 8)

Press the service mode key on the local keyboard. The following menu will now appaear:

```
SERVICE VX.X

DIAGNOSE
ALIGN 1
ALIGN 2
OPTION 1
OPTION 2
```

White balance

Connect a pattern generator and select a colour bar pattern. Control colour to minimum

Using the UP/DOWN keys highlite ALIGN1. Using the LEFT/RIGHT key enter into this menu. The following menu will appear:

```
SERVICE VX.X

Lo - Green
Lo - Blue
Hi - Green
Hi - Blue
```

Use UP/DOWN to highlite an item. Use LEFT/RIGHT to select it. Now the vaulue can be changed with LEFT/RIGHT. Backing to the previous menu is done with the OK key.

Using the Lo-Green and Lo-Blue settings, adjust the colour of the dark-grey area's of the picture to untinted grey.
Using the Hi-Green and Hi-Blue settings, adjust the colour of the light area's of the picture to correct white. Touch up the settings for Lo-Green and Lo-blue of neccesary.

Note down the values set for Hi-Green and Hi-Blue. Increase the setting of Hi-Green with 1 and of Hi-Blue with 7.

Press OK to return to the main service menu and select ALIGN2.

```
SERVICE VX.X

Lo - Green 2
Lo - Blue 2
Hi - Green 3
Hi  -  Blue 3
```

Set the values of Hi-Green 2 and Hi-Blue 2 to the values noted down for Hi-Green and Hi-Blue in the ALIGN1 alignment.

Set the values of Hi-Green 3 and Hi-Blue 3 to the values noted down for Hi-Green and Hi-Blue in the ALIGN1 alignment reduced for Hi-Green with 1 and for Hi-Blue with 3.

Options

The option codes indicate to the software which hardware is built in the set. Whenever the EEPROM is replaced or a hardware function has been added/deleted the option codes must be set.
The G8 set has two option codes. Each code is a number which is created by the addition of the number belonging to each available hardware part.

Option 1

IF=38,9 (for all other versions)Add 1 to option 1
IF=36.875 (for /75)Add 2 to option 1
IF=38 (for /58)Add 4 to option 1
IF=39,5 (for /57)Add 8 to option 1
2 carrier stereo reception & NO NICAMAdd 16 to option 1
Only mono sound receptionAdd 48 to option 1
Teletext decoder presentAdd 64 to option 1
No camcorder connector on front (25" sets)Add 128 to option 1

Option 2

Tuner is UV914, UV954 or UV963Add 1 to option 2
Tuner is UV974Add 2 to option 2
UHF only (Australia)Add 128 to option 2

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8. List of err

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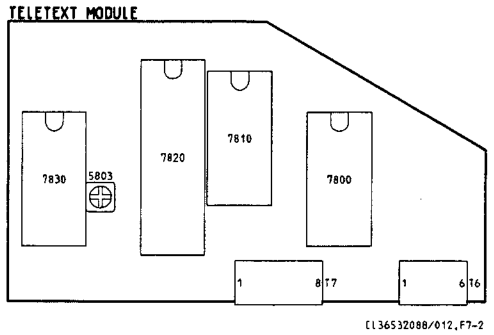
7. Settings on the TXT Panel

Connect pin 22 of IC7830 to ground. Connect a frequency counter to pin 17 of IC7830 and adjust 5803 for 6,000 Mhz ± 30 kHz.



8. Adjustments via the service menu (in the Service Mode, see chapter 8)

Press the service mode key on the local keyboard. The following menu will now appaear:

SERVICE VX.X

DIAGNOSE
ALIGN 1
ALIGN 2
OPTION 1
OPTION 2

White balance

Connect a pattern generator and select a colour bar pattern. Control colour to minimum

Using the UP/DOWN keys highlite ALIGN1. Using the LEFT/RIGHT key enter into this menu. The following menu will appear:

SERVICE VX.X

Lo - Green
Lo - Blue
Hi - Green
Hi - Blue

Use UP/DOWN to highlite an item. Use LEFT/RIGHT to select it. Now the vaulue can be changed with LEFT/RIGHT. Backing to the previous menu is done with the OK key.

Using the Lo-Green and Lo-Blue settings, adjust the colour of the dark-grey area's of the picture to untinted grey.

Using the Hi-Green and Hi-Blue settings, adjust the colour of the light area's of the picture to correct white. Touch up the settings for Lo-Green and Lo-blue of neccesary.

Note down the values set for Hi-Green and Hi-Blue. Increase the setting of Hi-Green with 1 and of Hi-Blue with 7.

Press OK to return to the main service menu and select ALIGN2.

SERVICE VX.X

Lo - Green 2
Lo - Blue 2
Hi - Green 3
Hi - Blue 3

Set the values of Hi-Green 2 and Hi-Blue 2 to the values noted down for Hi-Green and Hi-Blue in the ALIGN1 alignment.

Set the values of Hi-Green 3 and Hi-Blue 3 to the values noted down for Hi-Green and Hi-Blue in the ALIGN1 alignment reduced for Hi-Green with 1 and for Hi-Blue with 3.

Options

The option codes indicate to the software which hardware is built in the set. Whenever the EEPROM is replaced or a hardware function has been added/deleted the option codes must be set.
The G8 set has two option codes. Each code is a number which is created by the addition of the number belonging to each available hardware part.

Option 1

IF=38,9 (for all other versions)Add 1 to option 1
IF=36.875 (for /75)Add 2 to option 1
IF=38 (for /58)Add 4 to option 1
IF=39,5 (for /57)Add 8 to option 1
2 carrier stereo reception & NO NICAMAdd 16 to option 1
Only mono sound receptionAdd 48 to option 1
Teletext decoder presentAdd 64 to option 1
No camcorder connector on front (25" sets)Add 128 to option 1

Option 2

Tuner is UV914, UV954 or UV963Add 1 to option 2
Tuner is UV974Add 2 to option 2
UHF only (Australia)Add 128 to option 2

---

8. List of error messages

List of error messages
The TV set has an IC software error detection mode to indicate the faulty circuits. (Only applicable for IC's which have an IC connection). Whenever a faulty circuit is detected the error code will be displayed on the screen. At the same time the power on / stand-by LED will be flashing. In case the display on screen is not possible, the flashing LED indicates that a fault is detected.

Service Default Mode
The Service Default Mode (SDM) can be activated by pushing a special service button on the Local Keyboard panel at the top of the set. The button can be reached when the rear-cover has been removed. (Button C in fig 4.2, page 3.) To indicate that the set is in this service default mode, an "S" will be displayed on the screen. When this SMD mode is activated the set is put in pre-defined positions:

- all controls are put at 50% of the control range except volume control which is set at of 25%.
- the TV set is tuned to 475,25 Mhz (auto system search)
- The Sound IF is depending on the Video IF:

Video IF:	Sound IF:
38.9	5.5
45.75	4.5
36.875	6.0
39.5	6.5

These pre-defined positions can be overruled.
All voltages and diagrams indicated in the service manual are measured in this pre-defined state.
When the stand-by command is given the Service Default Mode is exited.

Service Mode
At the same time when the set is put in the SDM it will also be put in the "Service mode" (SM). The SM menu will be displayed. The next menus can be selected. See fig. 8.1
The last 5 different detected error codes are stored into the memory of the set.
The read-out can be done in the diagnose menu.

In the Service Mode (SM) the following items can be adjusted or are displayed:

- set all software controlled options
- display error codes detected in the past
- erase error codes detected in the past
- display the software version of the set.
- CRT alignments for the 3 white-tone settings (colour temperatures). See paragraph 8 of chapter 7.

When the OK button is pressed one or more times the Service Mode is exited.
The SDM remains still activated until the stand-by command is given.

Error messages:

ERROR CODE	DEVICE
0	NO ERROR
1	INTERNAL RAM
2	I^2C BUS
3	X24C02
4	ELETEXT µP
5	SDA9088
6	NICAM PCF8574
7	A/V PCF8574
8	X24C02 (read back)
9	TDA468/4670
10	TDA8415
11	TDA8425
12	TUNER

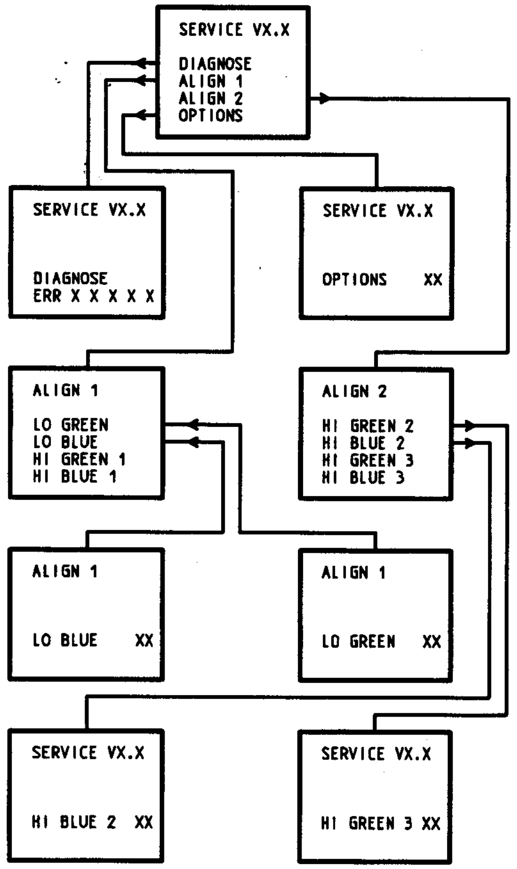
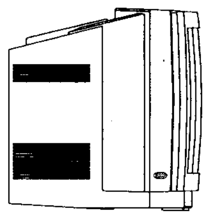
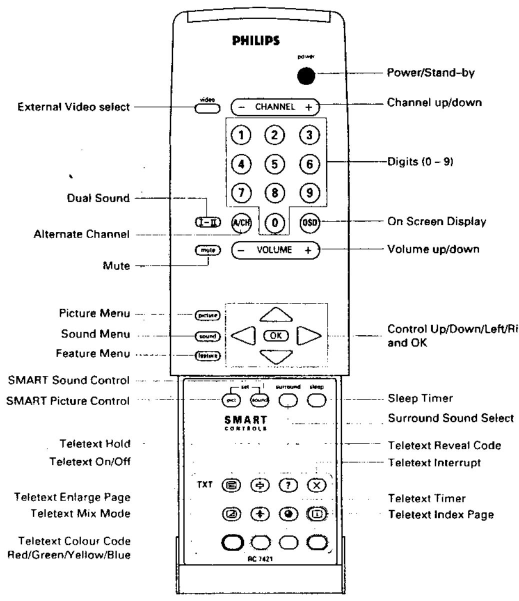


Fig.8.1

Left Side View (Mains Power)



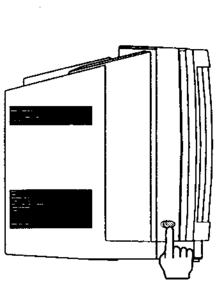
Remote Control Handset [RC 7421]

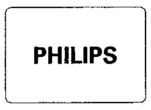

PHILIPS
power
Power/Stand-by
External Video select
video
CHANNEL
Channel up/down
Digits (0 – 9)
Dual Sound
Alternate Channel
A/CH
OSD
On Screen Display
Mute
mute
VOLUME
Volume up/down
Picture Menu
Sound Menu
Feature Menu
picture
sound
feature
OK
Control Up/Down/Left/Right and OK
SMART Sound Control
SMART Picture Control
set
surround
sleep
SMART CONTROLS
Sleep Timer
Surround Sound Select
Teletext Hold
Teletext On/Off
Teletext Reveal Code
Teletext Interrupt
TXT
Teletext Enlarge Page
Teletext Mix Mode
Teletext Timer
Teletext Index Page
Teletext Colour Code Red/Green/Yellow/Blue
RC 7421

Switching the TV 'ON'

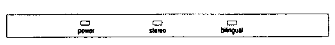
- Press the **Main Power** ⓘ button to switch ON the TV set.

Note :
1. Please allow a few seconds for the set to warm–up after it is switched on.
2. When switching the TV set on and off with the **Main Power** ⓘ button continuously, a colour flash may appear on the screen. This does not represent any fault in the set.
3. When there is no signal input after the set is switched on, a blue screen with the name PHILIPS will appear. If after 10 minutes and there is still no signal detected, the TV will automatically switch itself over to the stand–by mode.





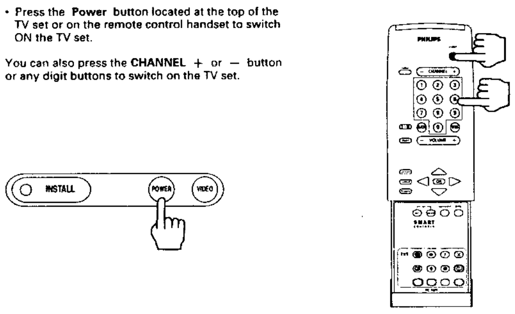
A green LED light for **power on** or a red LED light for **stand–by** will be lighted up on the front panel of the TV.


power
stereo
bilingual

To switch the TV set ON from the stand–by mode

- Press the **Power** button located at the top of the TV set or on the remote control handset to switch ON the TV set.

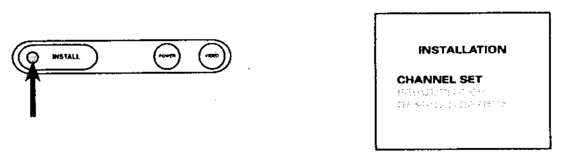
You can also press the **CHANNEL** + or — button or any digit buttons to switch on the TV set.


INSTALL
POWER
VIDEO
PHILIPS

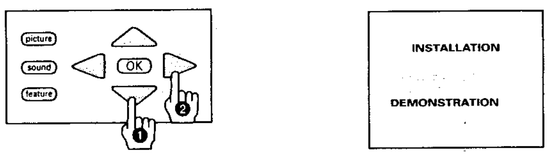
Demonstration Mode

This function demonstrates in sequence the essential features of your TV.
Note : If you decide to watch the demonstration mode before the Tuning of the TV, then proceed as follows. If not go to page 12.

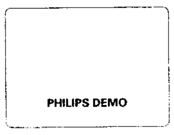
1. Press the **INSTALL** button on the top of the TV set with a pointed object.


INSTALL
POWER
VIDEO
INSTALLATION
CHANNEL SET

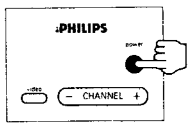
2. On the remote control handset, ❶ press the ▼ or ▲ button to highlight the **DEMONSTRATION** mode. ❷ press the ◄ or ► button again to start the demonstration.


picture
sound
feature
OK
❶
❷
INSTALLATION
DEMONSTRATION

When the **DEMONSTRATION** mode is switched on, the word **PHILIPS DEMO** in red will be displayed on the screen.


PHILIPS DEMO

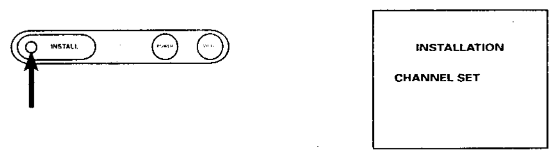
3. To stop the demonstration at any time, press the **power** button to return to the **INSTALLATION** menu.


PHILIPS
power
video
CHANNEL

Searching and Storing TV Channels

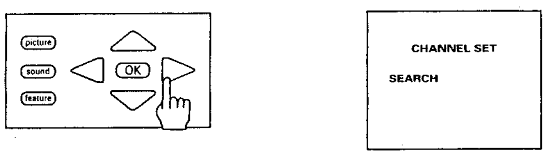
You can search your TV channels in two ways; either using automatic searching or manual direct frequency keying.

- Press the **INSTALL** button located at the top of the TV set with a pointed object to select the **INSTALLATION** Menu.

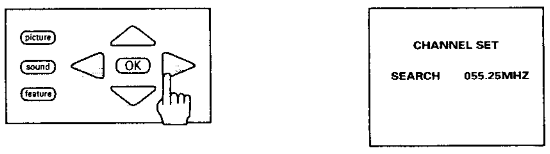

INSTALL
INSTALLATION
CHANNEL SET

A. To store the TV stations Automatically

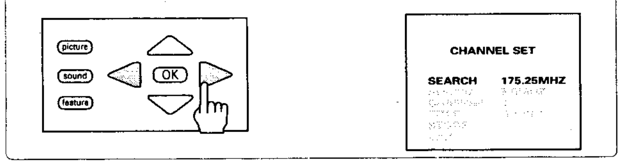
1. Press the ◄ or ► button on the remote control to select the **CHANNEL SET** mode.


picture
sound
feature
OK
CHANNEL SET
SEARCH

2. Press the ◄ or ► button on the remote control to select the **SEARCH** mode.

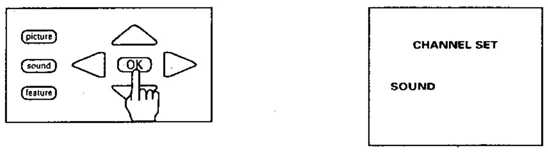

picture
sound
feature
OK
CHANNEL SET
SEARCH 055.25MHZ

3. Press and hold the ► button on the remote control again for about 2 seconds to start the automatic frequency searching. Once a TV station is located, it will stop searching.


picture
sound
feature
OK
CHANNEL SET
SEARCH 175.25MHZ

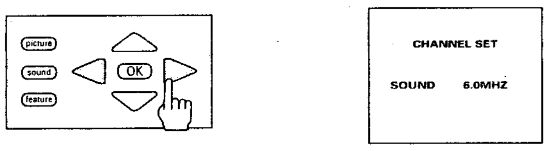
If you are satisfied with your selected channel, proceed to step 4. If not repeat step 3.

4. Press the **OK** button to select the frequency.


picture
sound
feature
OK
CHANNEL SET
SOUND

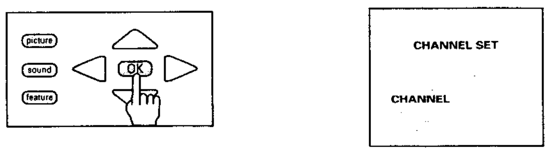
If the sound is good you may wish to proceed to step 7.
If there is distorted sound or no sound, but the picture is good, the sound system is probably in the wrong mode.
Note : If there is no sound, first try increasing the volume by pressing the **VOLUME** (◿) + button before proceeding with step 5.

5. Press the ◄ or ► button on the remote control to activate and cycle through the various **SOUND** Menu.
(e.g. 5.5 MHz, 6.5 MHz, 4.5 MHz or 6.0 MHz).

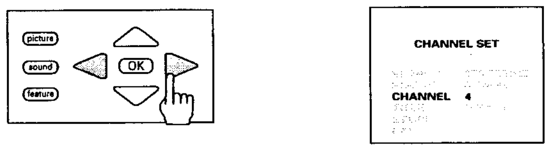

picture
sound
feature
OK
CHANNEL SET
SOUND 6.0MHZ

Refer to the frequency table on page 37 for the respective sound frequency.

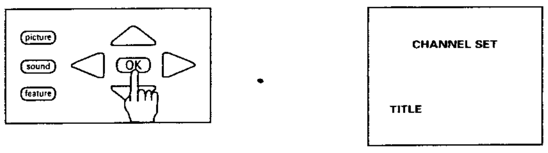
6. Press the **OK** button to select the sound frequency.


picture
sound
feature
OK
CHANNEL SET
CHANNEL

7. Press the ◄ or ► button on the remote control to select the desired programme number.
For programme numbers 10 to 39, you can make use of the digit button on the remote control for direct keying. Please note that for the double digits, a time of 2 seconds is allowable for the keying in.

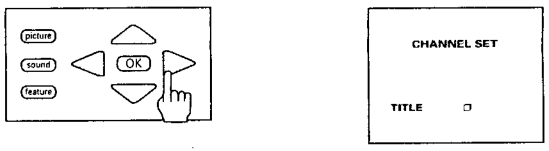

picture
sound
feature
OK
CHANNEL SET
CHANNEL 4

8. Press the **OK** button to select the channel number.

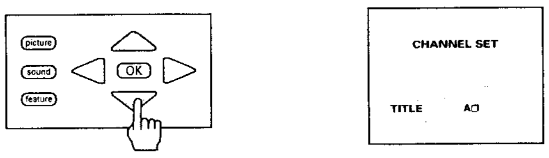

picture
sound
feature
OK
CHANNEL SET
TITLE

Programme Title enables you to name the TV station you have selected for easy references.
A maximum of 5 character space is permissible for entering. e.g. VIDEO, ABC 4, ABC12, etc.
Programme Title is only available for selection from channel 0 to 39.
If you wish to skip the programme title, proceed to step 13.

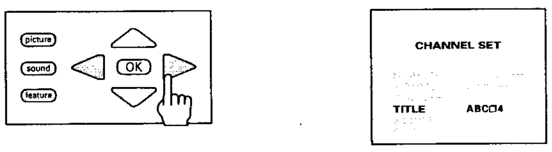
9. Press the ◄ or ► button on the remote control to select the **TITLE** Menu.


picture
sound
feature
OK
CHANNEL SET
TITLE □

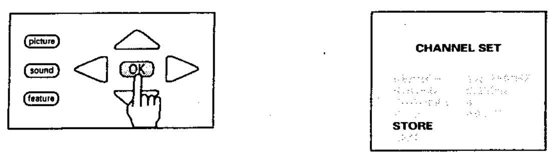
10. Press the ▲ or ▼ button on the remote control to cycle through and select the desired numbers or alphabets. (e.g. 0, 1, 2, 3 ... X, Y, Z)


picture
sound
feature
OK
CHANNEL SET
TITLE A□

11. Press the ◄ or ► button on the remote control to shift the cursor to the next character for selection. If you wish to leave a blank space in between, repeat step 10 until you locate the blank space. It is located between the alphabet Z and the number 0.

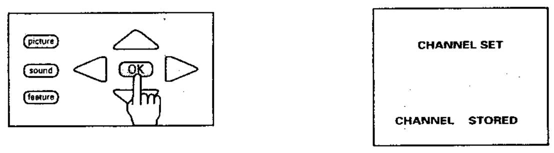

picture
sound
feature
OK
CHANNEL SET
TITLE ABC□4

12. Press the **OK** button on the remote control to select the programme title.

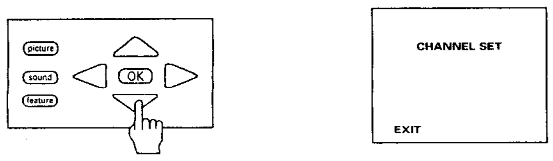

picture
sound
feature
OK
CHANNEL SET
STORE

When you have completed all the selections, you need to store them.

13A. If you want to continue searching for other TV stations, press the **OK** button on the remote control to store the selection and repeat steps 1 to 13.


picture
sound
feature
OK
CHANNEL SET
CHANNEL STORED

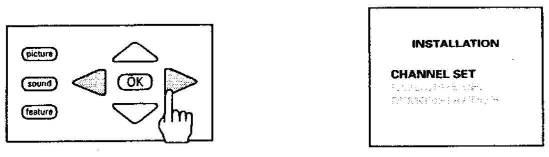
13B. If you want to complete your installation, press the ▼ button on the remote control to highlight the word **EXIT**. Then press the **OK** button to exit from the **CHANNEL SET** menu.


picture
sound
feature
OK
CHANNEL SET
EXIT

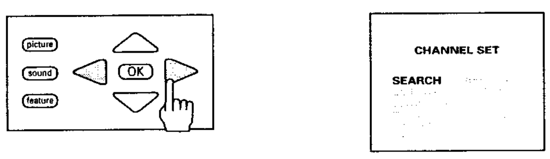
Pressing the **OK** button once more will allow you to exit from the **INSTALLATION** menu.

B. To store the TV stations with Manual Direct Frequency Keying

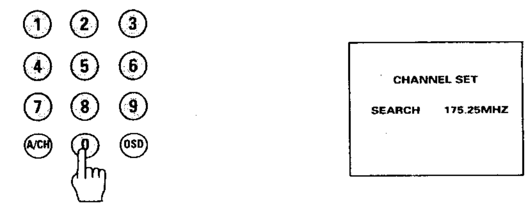
1. Press the ◄ or ► button on the remote control to select the **CHANNEL SET** mode.


picture
sound
feature
OK
INSTALLATION
CHANNEL SET

2. Press the ◄ or ► button on the remote control to select the **SEARCH** mode.


picture
sound
feature
OK
CHANNEL SET
SEARCH

3. Enter the 5 digits of the desired frequency.
e.g. For frequency 175.25 MHZ, enter 17525 from your remote control handset digit buttons.


1
2
3
4
5
6
7
8
9
A/CH
0
OSD
CHANNEL SET
SEARCH 175.25MHZ

Note :
1. Please refer to the Frequency Table on pages 37 to 40 for the respective channel frequency.
2. For frequencies under 100 MHZ, first enter the digit 0 and then follow by the required frequency. e.g. 055.25 MHZ.

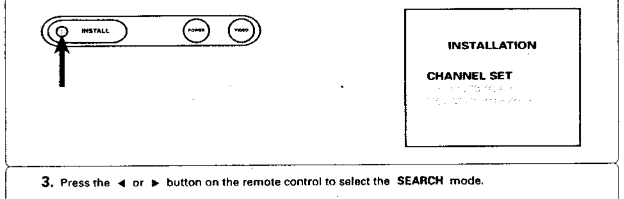
Fine Tuning

In case the picture and sound are not optimum (in area of poor reception or constant interference), a slight adjustment of the tuning may improve the picture and sound quality.

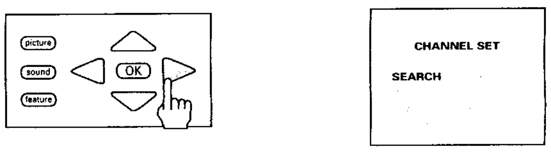
1. Select the channel number you want to do fine tuning with the **CHANNEL** + or — button on the remote control handset.

CHANNEL
4
ABC 4
PAL

2. Press the **INSTALL** button located at the top of the TV set to select the **INSTALLATION** Menu.

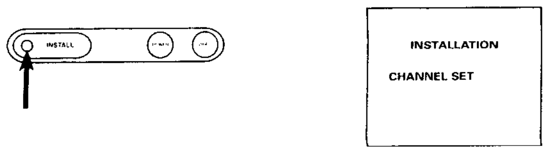

INSTALL
POWER
VIDEO
INSTALLATION
CHANNEL SET

3. Press the ◄ or ► button on the remote control to select the **SEARCH** mode.


picture
sound
feature
OK
CHANNEL SET
SEARCH

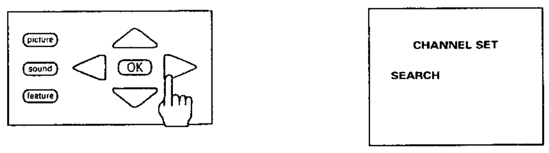
4. Every press of the ◄ or ► button on the remote control enables you to do a fine tuning of the frequency at ± 0.06 MHZ. You must ensure that when you press the button, it is not more than 2 seconds. If not, it will go into the automatic search mode.

- Press the **INSTALL** button located at the top of the TV set with a pointed object to select the **INSTALLATION** Menu.

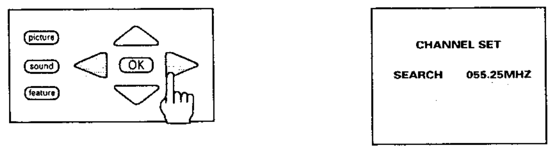

INSTALL
INSTALLATION
CHANNEL SET

A. To store the TV stations Automatically

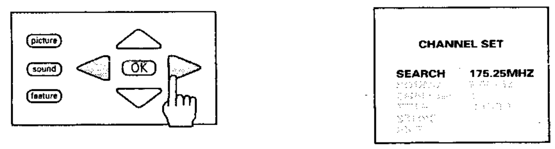
1. Press the ◄ or ► button on the remote control to select the **CHANNEL SET** mode.


picture
sound
feature
OK
CHANNEL SET
SEARCH

2. Press the ◄ or ► button on the remote control to select the **SEARCH** mode.


picture
sound
feature
OK
CHANNEL SET
SEARCH 055.25MHZ

3. Press and hold the ► button on the remote control again for about 2 seconds to start the automatic frequency searching. Once a TV station is located, it will stop searching.

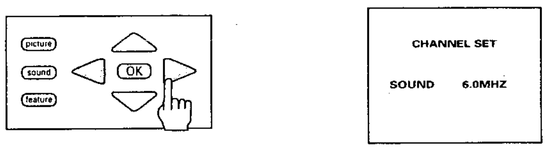

picture
sound
feature
OK
CHANNEL SET
SEARCH 175.25MHZ

If you are satisfied with your selected channel, proceed to step 4. If not repeat step 3.

sound
feature
OK
SOUND

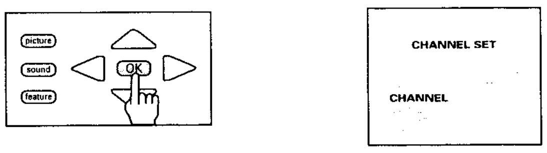
If the sound is good you may wish to proceed to step 7.
If there is distorted sound or no sound, but the picture is good, the sound system is probably in the wrong mode.
Note : If there is no sound, first try increasing the volume by pressing the **VOLUME** (⊿) + button before proceeding with step 5.

5. Press the ◄ or ► button on the remote control to activate and cycle through the various **SOUND** Menu.
(e.g. 5.5 MHz, 6.5 MHz, 4.5 MHz or 6.0 MHz).

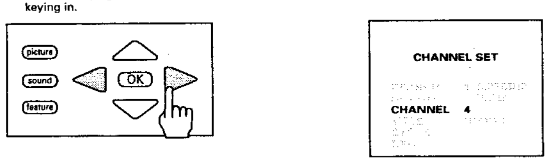

picture
sound
feature
OK
CHANNEL SET
SOUND 6.0MHZ

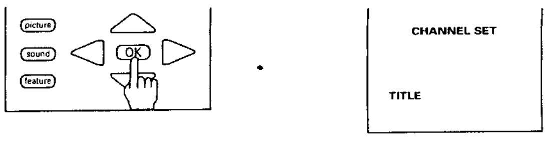
Refer to the frequency table on page 37 for the respective sound frequency.

6. Press the **OK** button to select the sound frequency.


picture
sound
feature
OK
CHANNEL SET
CHANNEL

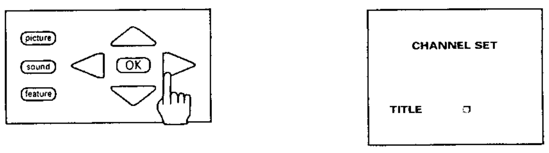
7. Press the ◄ or ► button on the remote control to select the desired programme number. For programme numbers 10 to 39, you can make use of the digit button on the remote control for direct keying. Please note that for the double digits, a time of 2 seconds is allowable for the keying in.


picture
sound
feature
OK
CHANNEL SET
CHANNEL 4

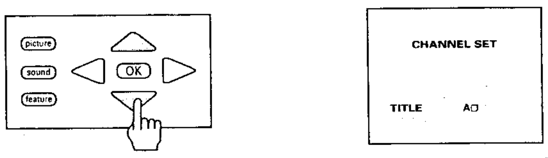

picture
sound
feature
OK
CHANNEL SET
TITLE

Programme Title enables you to name the TV station you have selected for easy references.
A maximum of 5 character space is permissible for entering. e.g. VIDEO, ABC 4, ABC12, etc.
Programme Title is only available for selection from channel 0 to 39.
If you wish to skip the programme title, proceed to step 13.

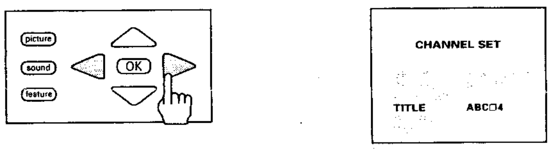
9. Press the ◄ or ► button on the remote control to select the **TITLE** Menu.


picture
sound
feature
OK
CHANNEL SET
TITLE □

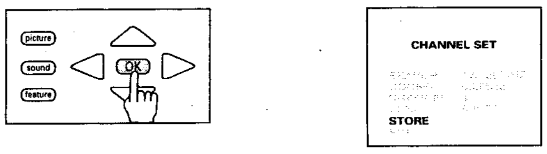
10. Press the ▲ or ▼ button on the remote control to cycle through and select the desired numbers or alphabets. (e.g. 0, 1, 2, 3 ... X, Y, Z)


picture
sound
feature
OK
CHANNEL SET
TITLE A□

11. Press the ◄ or ► button on the remote control to shift the cursor to the next character for selection. If you wish to leave a blank space in between, repeat step 10 until you locate the blank space. It is located between the alphabet Z and the number 0.

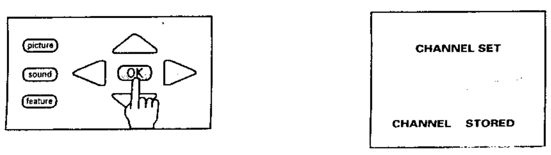

picture
sound
feature
OK
CHANNEL SET
TITLE ABC□4

12. Press the **OK** button on the remote control to select the programme title.

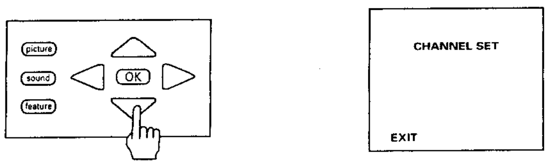

picture
sound
feature
OK
CHANNEL SET
STORE

When you have completed all the selections, you need to store them.

13A. If you want to continue searching for other TV stations, press the **OK** button on the remote control to store the selection and repeat steps 1 to 13.


picture
sound
feature
OK
CHANNEL SET
CHANNEL STORED

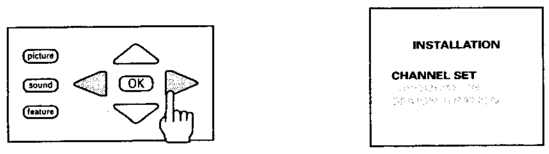
13B. If you want to complete your installation, press the ▼ button on the remote control to highlight the word **EXIT**. Then press the **OK** button to exit from the **CHANNEL SET** menu.


picture
sound
feature
OK
CHANNEL SET
EXIT

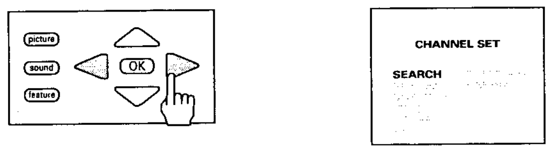
Pressing the **OK** button once more will allow you to exit from the **INSTALLATION** menu.

B. To store the TV stations with Manual Direct Frequency Keying

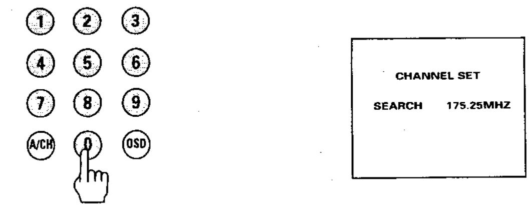
1. Press the ◄ or ► button on the remote control to select the **CHANNEL SET** mode.


picture
sound
feature
OK
INSTALLATION
CHANNEL SET

2. Press the ◄ or ► button on the remote control to select the **SEARCH** mode.


picture
sound
feature
OK
CHANNEL SET
SEARCH

3. Enter the 5 digits of the desired frequency.
e.g. For frequency 175.25 MHZ, enter 17525 from your remote control handset digit buttons.


1
2
3
4
5
6
7
8
9
A/CH
0
OSD
CHANNEL SET
SEARCH 175.25MHZ

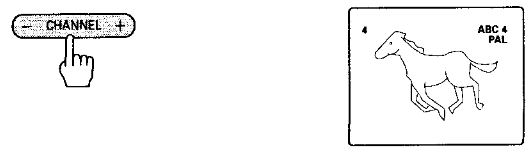
Note :
1. Please refer to the Frequency Table on pages 37 to 40 for the respective channel frequency.
2. For frequencies under 100 MHZ, first enter the digit 0 and then follow by the required frequency. e.g. 055.25 MHZ.
3. If you have entered the frequency wrongly, you have to complete the 5 digits before keying the correct frequency again.

Repeat steps 4 to 13 as in 'To store the TV station Automatically' for naming and storing the TV stations.

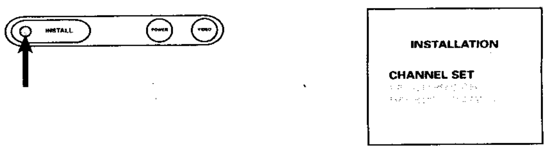
Fine Tuning

In case the picture and sound are not optimum (in area of poor reception or constant interference), a slight adjustment of the tuning may improve the picture and sound quality.

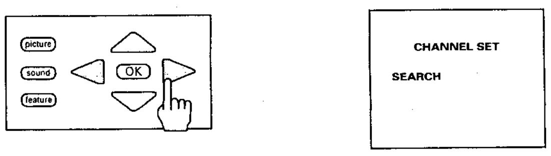
1. Select the channel number you want to do fine tuning with the **CHANNEL** + or − button on the remote control handset.


− CHANNEL +
4
ABC 4
PAL

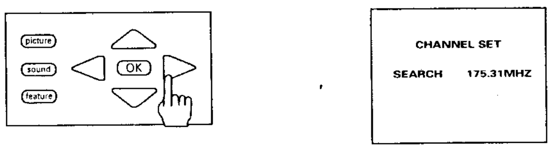
2. Press the **INSTALL** button located at the top of the TV set to select the **INSTALLATION** Menu.


INSTALL
POWER
VIDEO
INSTALLATION
CHANNEL SET

3. Press the ◄ or ► button on the remote control to select the **SEARCH** mode.


picture
sound
feature
OK
CHANNEL SET
SEARCH

4. Every press of the ◄ or ► button on the remote control enables you to do a fine tuning of the frequency at ± 0.06 MHZ. You must ensure that when you press the button, it is not more than 2 seconds. If not, it will go into the automatic search mode.

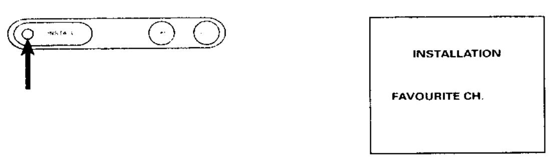

picture
sound
feature
OK
CHANNEL SET
SEARCH 175.31MHZ

When you have finished, repeat step 13 of 'To store the TV stations Automatically' to store the selection.

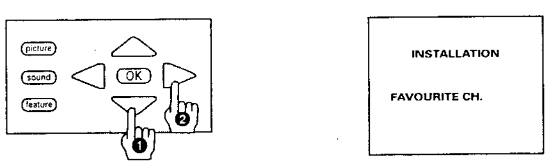
Favourite Channel Set

This feature enables you to skip those channel numbers which have bad or no TV signal.

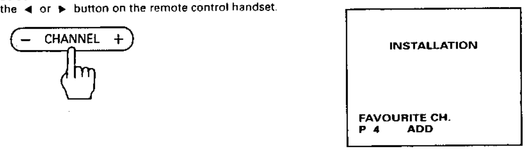
1. Press the **INSTALL** button on the top of the TV set


INSTALL
INSTALLATION
FAVOURITE CH.

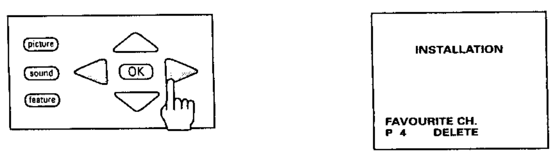
2. Press the ▲ or ▼ button on the remote control to highlight the **FAVOURITE CH.** menu and then press the ◄ or ► button on the remote control to select the **FAVOURITE CH.** menu.


picture
sound
feature
OK
1
2
INSTALLATION
FAVOURITE CH.

3. Press the **CHANNEL** + or − on the remote control to select the required channel number to be added or deleted. You can also key in the channel number directly with the digit buttons or the ◄ or ► button on the remote control handset.


− CHANNEL +
INSTALLATION
FAVOURITE CH.
P 4 ADD

4. Press of the ◄ or ► button on the remote control again to delete or add the selected channel number into the memory.


picture
sound
feature
OK
INSTALLATION
FAVOURITE CH.
P 4 DELETE

Repeat steps 3 and 4 for other channel numbers.

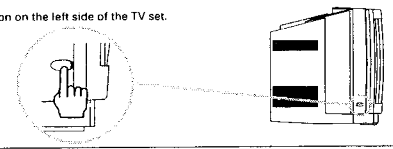
When you have finished the selection, press the **OK** button to exit from the menu.

Operating the TV set

IMPORTANT : To begin operating the TV set, ensure that you have completed the **INSTALLATION** procedures.

1. Switching the TV ON or OFF

- Press the **POWER** button on the left side of the TV set.



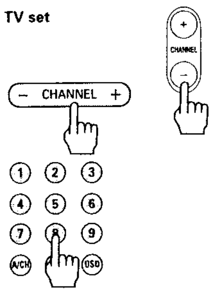
2. Selecting the TV Channels

A. On the Control Panel at the top of the TV set
- Press the **CHANNEL** + or − button to view a higher or lower channel number respectively.

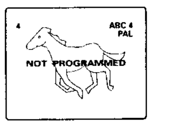
B. On the Remote Control Handset
[I] To scroll through the channel numbers
- Press the **CHANNEL** + or − button to view a higher or lower channel number respectively.

[II] To select single digit channel number
- Press any digit number button. (e.g. 0, 5, 9)

[III] To select double digit channel number
- Press two digit number buttons (e.g. 05, 16, 39). There is a 2-second time limitation in this mode. To select the second digit number once, the first digit is pressed.


+
CHANNEL
−
− CHANNEL +
1
2
3
4
5
6
7
8
9
A/CH
OSD

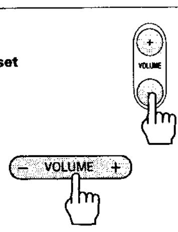
Note :
At times when you make the channel selection, the word **NOT PROGRAMMED** is displayed on the screen. This indicates that the selected channel is deleted from the memory. To add the channel number back to the memory, refer to section on 'Favourite Channel Set'.


4
ABC 4
PAL
NOT PROGRAMMED

3. Adjusting the Volume

A. On the Control Panel at the top of the TV set
- Press the **VOLUME** + or − button to increase or decrease the volume respectively.

B. On the Remote Control Handset
- Press the **VOLUME** (⊿) + or − button to increase or decrease the volume respectively.

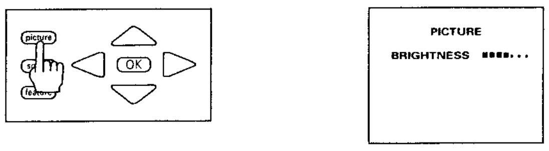

+
VOLUME
− VOLUME +

Menu Operation

Menu can be called up directly with the respective button. Altogether there are 3 distinct menus on this TV set : **picture**, **sound** and **features**.

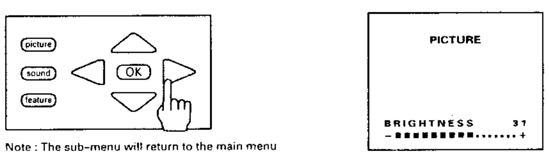
1. PICTURE Menu

- Press the **picture** button on the remote control.


picture
OK
PICTURE
BRIGHTNESS ■■■■• • •

1A. BRIGHTNESS

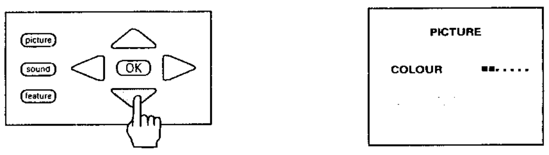
- Press the ◄ or ► button on the remote control to adjust the brightness level.


picture
sound
feature
OK
PICTURE
BRIGHTNESS 31
− ■■■■■■■■■■• • • • • • • +

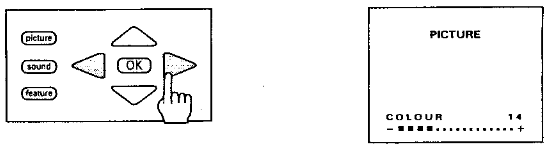
Note : The sub-menu will return to the main menu after 2 seconds if no adjustments had been made.

1B. COLOUR

- Press the ▼ button on the remote control to select the **COLOUR**.

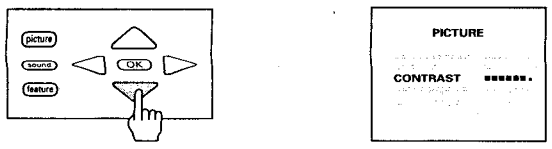

picture
sound
feature
OK
PICTURE
COLOUR ■■• • • • •

- Press the ◄ or ► button on the remote control to adjust the colour level.

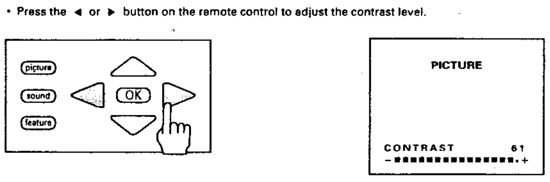

picture
sound
feature
OK
PICTURE
COLOUR 14
− ■■■■• • • • • • • • • • • • • +

1C. CONTRAST

- Press the ▼ button on the remote control to select the **CONTRAST**.

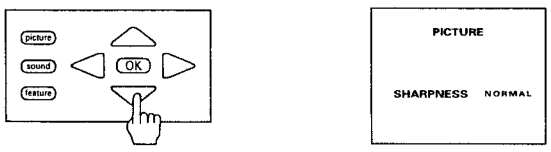

picture
sound
feature
OK
PICTURE
CONTRAST

- Press the ◀ or ▶ button on the remote control to adjust the contrast level.

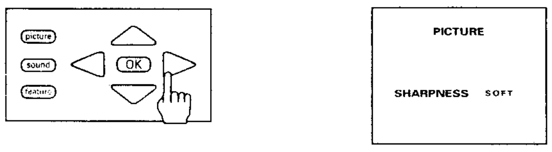

picture
sound
feature
OK
PICTURE
CONTRAST 61
- +

1D. SHARPNESS

- Press the ▼ button on the remote control to select the **SHARPNESS**.

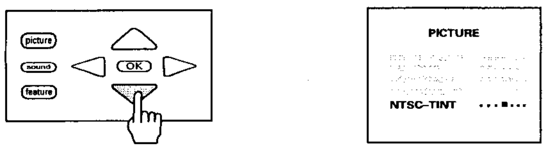

picture
sound
feature
OK
PICTURE
SHARPNESS NORMAL

- Press the ◀ or ▶ button on the remote control to adjust the sharpness level.
  You can select the following settings: **MINIMUM, SOFT, NORMAL** and **MAXIMUM**.

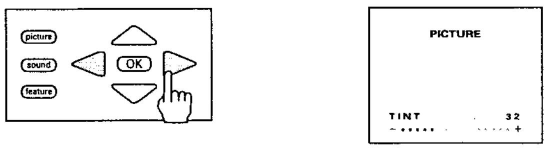

OK
PICTURE
SHARPNESS SOFT

1E. NTSC–TINT (only for programmes in the NTSC mode)

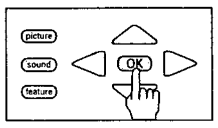
- Press the ▼ button on the remote control to select the **NTSC–TINT**.


picture
sound
feature
OK
PICTURE
NTSC–TINT

- Press the ◀ or ▶ button on the remote control to adjust the tint level. Tint can be adjusted with yellowish at the center, more reddish to the left and more greenish to the right.

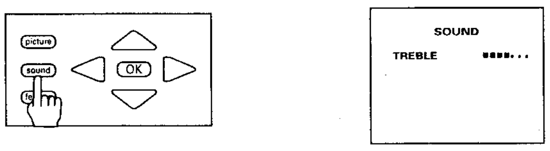

picture
sound
feature
OK
PICTURE
TINT 32
- +

You have completed the **PICTURE** Menu selection. If you are satisfied, press the **OK** button on the remote control to exit from the **PICTURE** Menu. The **PICTURE** Menu settings are all stored automatically according to your adjustments.


picture
sound
feature
OK

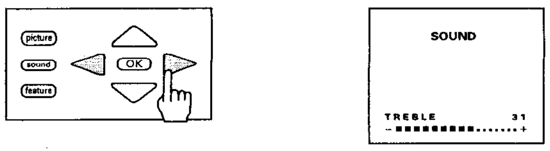
2. SOUND Menu

- Press the **sound** button on the remote control.


picture
sound
OK
SOUND
TREBLE

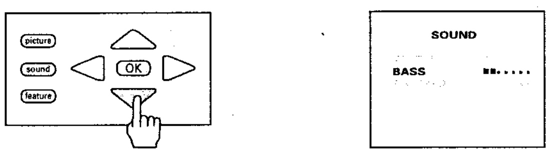
2A. TREBLE

- Press the ◀ or ▶ button on the remote control to adjust the treble level.

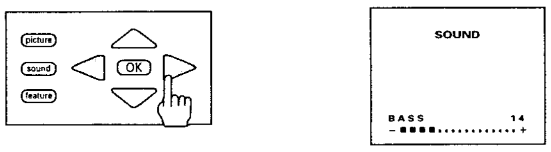

picture
sound
feature
OK
SOUND
TREBLE 31
- +

2B. BASS

- Press the ▼ button on the remote control to select the **BASS**.

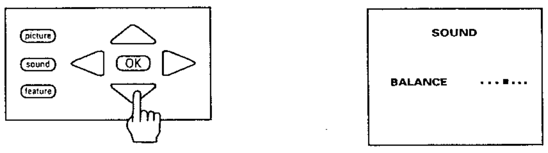

picture
sound
feature
OK
SOUND
BASS

- Press the ◀ or ▶ button on the remote control to adjust the bass level.

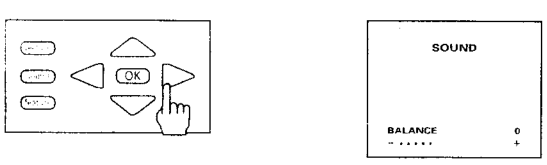

picture
sound
feature
OK
SOUND
BASS 14
- +

2C. BALANCE

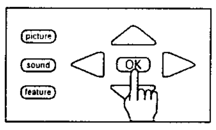
- Press the ▼ button on the remote control to select the **BALANCE**.


picture
sound
feature
OK
SOUND
BALANCE

- Press the ◀ or ▶ button on the remote control to adjust the balance level.

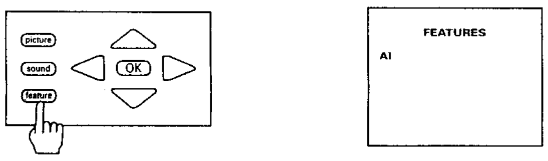

OK
SOUND
BALANCE 0
- +

You have completed the **SOUND** Menu selection. If you are satisfied, press the **OK** button on the remote control to exit from the **SOUND** Menu. The **SOUND** Menu settings are all stored automatically according to your adjustments.


picture
sound
feature
OK

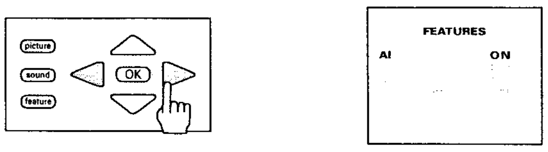
3. FEATURE Menu

- Press the **feature** button on the remote control.

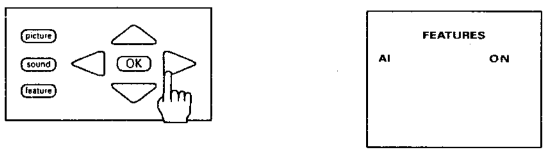

picture
sound
feature
OK
FEATURES
AI

3A. Artificial Intelligence (AI)

This feature will automatically compensate the black colour intensity level to its richest level when it is switched on.


picture
sound
feature
OK
FEATURES
AI ON

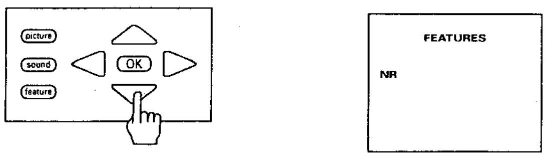
- Press the ◀ or ▶ button on the remote control twice to switch on or off the AI mode.


picture
sound
feature
OK
FEATURES
AI ON

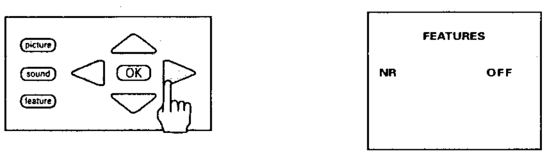
3B. NOISE REDUCTION (NR)

When your picture has some noise interference, by switching on the noise reduction, it will help to clear the noise saturation and make the picture much clearer.

- Press the ▼ button on the remote control to select the **NR** (noise reduction).


picture
sound
feature
OK
FEATURES
NR

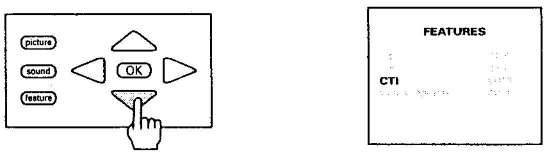
- Press the ◀ or ▶ button on the remote control twice to switch on or off the noise reduction.


picture
sound
feature
OK
FEATURES
NR OFF

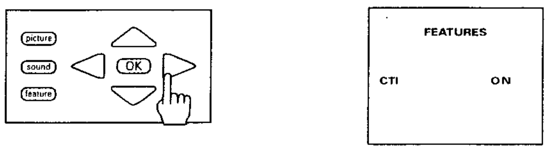
3C. COLOUR TRANSIENT IMPROVEMENT (CTI)

CTI should always be at the ON position to enhance colour definition, but if colour edge is wavy, switch off the **CTI**.

- Press the ▼ button on the remote control to select the **CTI**.


picture
sound
feature
OK
FEATURES
CTI

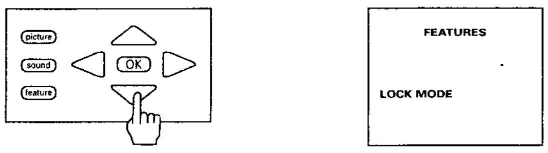
- Press the ◀ or ▶ button on the remote control twice to switch on or off the CTI.


picture
sound
feature
OK
FEATURES
CTI ON

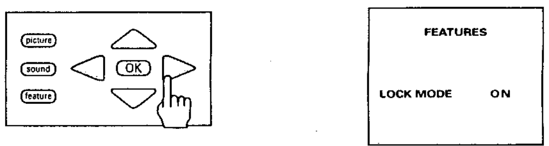
3D. LOCK MODE

When the **LOCK MODE** is switched on, it enables you to deactivate the control buttons at the top of the TV set except the **MAIN POWER** button. Adjustments to the TV set picture and sound can only be made with the remote control.

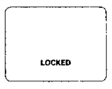
- Press the ▼ button on the remote control to select the **LOCK MODE**.


picture
sound
feature
OK
FEATURES
LOCK MODE

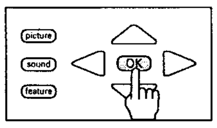
- Press the ◀ or ▶ button on the remote control twice to switch on or off the lock mode.


picture
sound
feature
OK
FEATURES
LOCK MODE ON

When the LOCK MODE is switched on, the screen will displayed the word LOCKED.
If the set is switched off with the LOCK MODE switch on, the nest time you switch on the set again, it will be at the stand–by position. To switch on the set, press the power button on the TV or the remote control.



You have completed the **FEATURE** Menu selections. If you are satisfied, press the **OK** button on the remote control to exit from the **FEATURE** Menu. The **FEATURE** Menu settings are all stored automatically according to your adjustments.


picture
sound
feature
OK

Viewing Your TV

The following operations are performed using the remote control handset.

1. On Screen Display (OSD)

- Press the **OSD** button to display the programme number and programme title

7
8
9
A/CH
0
OSD
5
ABC 5

- Press the OSD button again to switch off display.

2. Dual Sound Broadcast – I-II

Depending on the broadcast transmission, sometimes a programme transmitted in NICAM or China 2CS mode could have up to two different languages in simultaneous transmission.

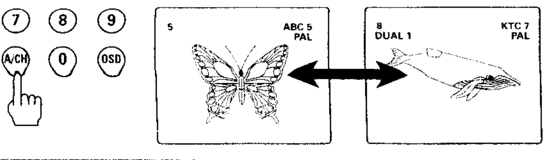
- Press the I-II button to cycle through the different language mode.

I-II
8
DUAL 1
KTC 7

3. Alternate Channel – A/CH

This feature enables you to swap between the current view channel number and last viewed channel number.

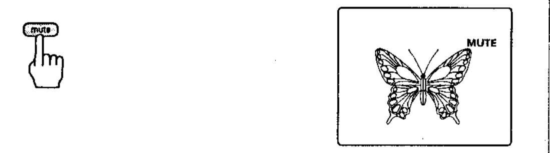
- Press the **A/CH** button to alternate between the current and last viewed channel number.


7
8
9
A/CH
0
OSD
5
ABC 5
PAL
8
DUAL 1
KTC 7
PAL

4. Mute

This feature allows you to temporarily switch off the sound of the television set without switching off the set when you require a moment of silence.

- Press the **mute** button to switch off the sound. It is indicated with the word **MUTE** that is displayed on the screen.



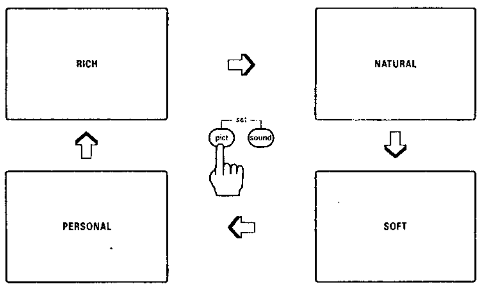
- Press the **mute** or **VOL +** button again to switch on the sound.

To operate the following features, you are required to lift open the bottom half of the remote control.

5. Picture Set (SMART Control)

You can set the picture in 4 different modes : **RICH** , **NATURAL** , **SOFT** or **PERSONAL**.

- Press the **pict set** button to cycle through the 4 settings and select the one that suit your preference.


RICH
NATURAL
SOFT
PERSONAL
set
pict
sound

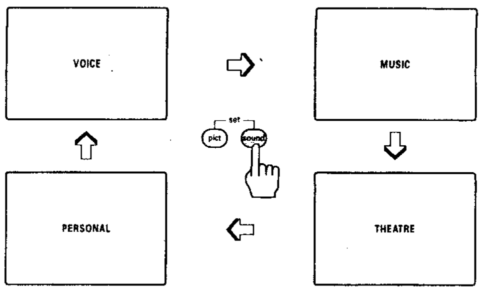
Note :
The following is recommended for your viewing pleasure.

1. RICH	– For display and showroom viewing
2. NATURAL	– For normal viewing
3. SOFT	– For night time viewing
4. PERSONAL	– For personal viewing preference, afterwhen you have made adjustments to the picture settings

6. Sound Set (SMART Control)

You can set the sound in 4 different modes : **VOICE** , **MUSIC** , **THEATRE** or **PERSONAL**.

- Press the **sound set** button to cycle through the 4 settings and select the one that suit your preference.


VOICE
MUSIC
THEATRE
PERSONAL
set
pict
sound

Note :
The following is recommended for your listening pleasure.

1. VOICE	– For news broadcast and dialogue programmes
2. MUSIC	– For musical programmes
3. THEATRE	– For movie programmes
4. PERSONAL	– For personal listening preference, after you have made adjustments to the sound setting

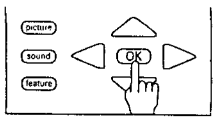
7. Surround Sound

Surround Sound gives you a 'concert hall' effect from a **STEREO** sound broadcast. To create a surround sound effect, two surround sound loudspeakers (optional) have to be connected to the rear speakers' sockets.

- Press the **surround** button to switch on or off the surround sound mode.

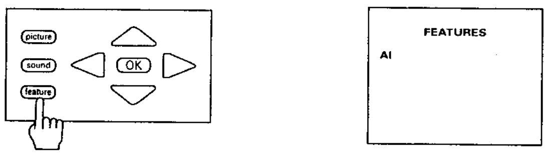
set
pict
sound
surround
sleep
SURROUND

Note :
1. For details on speakers' connections, refer to section on 'Peripheral Equipment Connections'.
2. Surround sound only works with a stereo broadcasting or external stereo source via the Video and Audio sockets. The speakers must be connected in pairs.
3. If you have connected external speakers that are not shielded, place them at a distance away from the TV set. This will prevent the TV picture from being affected by the speakers' magnets.
4. If portions of the picture have poor colour because of temporary proximity of magnets, switch off


picture
sound
feature
OK

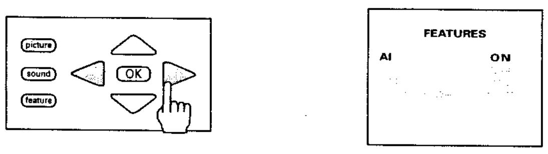
3. FEATURE Menu

- Press the **feature** button on the remote control.

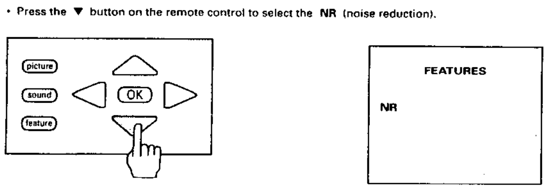

picture
sound
feature
OK
FEATURES
AI

3A. Artificial Intelligence (AI)

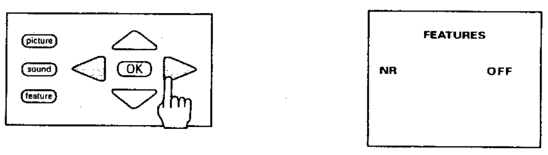
This feature will automatically compensate the black colour intensity level to its richest level when it is switched on.


picture
sound
feature
OK
FEATURES
AI ON

- Press the ▼ button on the remote control to select the **NR** (noise reduction).


picture
sound
feature
OK
FEATURES
NR

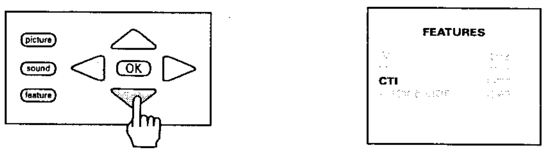
- Press the ◄ or ► button on the remote control twice to switch on or off the noise reduction.

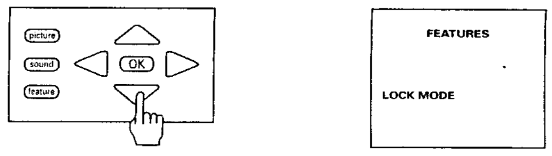

picture
sound
feature
OK
FEATURES
NR OFF

3C. COLOUR TRANSIENT IMPROVEMENT (CTI)

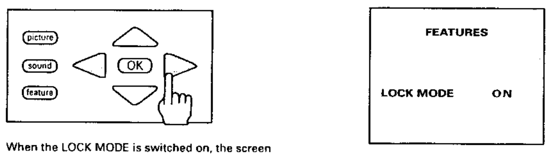
CTI should always be at the ON position to enhance colour definition, but if colour edge is wavy, switch off the **CTI**.

- Press the ▼ button on the remote control to select the **CTI**.

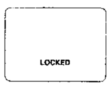

picture
sound
feature
OK
FEATURES
CTI


picture
sound
feature
OK
FEATURES
LOCK MODE

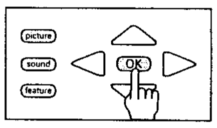
- Press the ◄ or ► button on the remote control twice to switch on or off the lock mode.


picture
sound
feature
OK
FEATURES
LOCK MODE ON

When the LOCK MODE is switched on, the screen will displayed the word LOCKED.
If the set is switched off with the LOCK MODE switch on, the nest time you switch on the set again, it will be at the stand-by position. To switch on the set, press the power button on the TV or the remote control.



You have completed the **FEATURE** Menu selections. If you are satisfied, press the **OK** button on the remote control to exit from the **FEATURE** Menu. The **FEATURE** Menu settings are all stored automatically according to your adjustments.


picture
sound
feature
OK

Viewing Your TV

The following operations are performed using the remote control handset.

1. On Screen Display (OSD)

- Press the **OSD** button to display the programme number and programme title

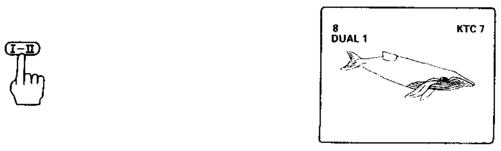
7
8
9
A/CH
0
OSD
5
ABC 5

- Press the OSD button again to switch off display.

2. Dual Sound Broadcast – I-II

Depending on the broadcast transmission, sometimes a programme transmitted in NICAM or China 2CS mode could have up to two different languages in simultaneous transmission.

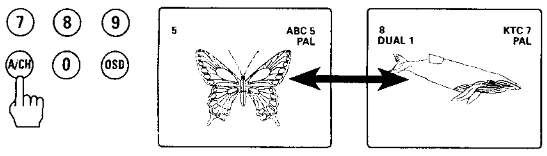
- Press the I-II button to cycle through the different language mode.


I-II
8
DUAL 1
KTC 7

3. Alternate Channel – A/CH

This feature enables you to swap between the current view channel number and last viewed channel number.

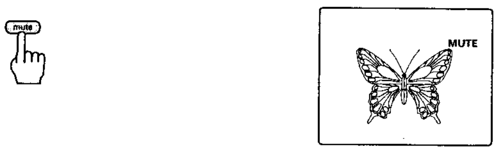
- Press the **A/CH** button to alternate between the current and last viewed channel number.


7
8
9
A/CH
0
OSD
5
ABC 5
PAL
8
DUAL 1
KTC 7
PAL

4. Mute

This feature allows you to temporarily switch off the sound of the television set without switching off the set when you require a moment of silence.

- Press the **mute** button to switch off the sound. It is indicated with the word **MUTE** that is displayed on the screen.



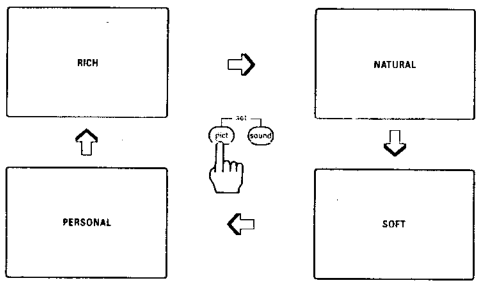
- Press the **mute** or **VOL +** button again to switch on the sound.

To operate the following features, you are required to lift open the bottom half of the remote control.

5. Picture Set (SMART Control)

You can set the picture in 4 different modes : **RICH** , **NATURAL** , **SOFT** or **PERSONAL**.

- Press the **pict set** button to cycle through the 4 settings and select the one that suit your preference.


RICH
NATURAL
set
pict
sound
PERSONAL
SOFT

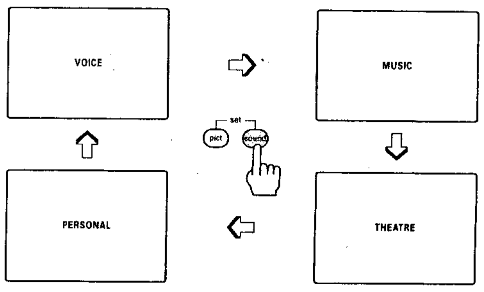
Note :
The following is recommended for your viewing pleasure.

1. RICH – For display and showroom viewing
2. NATURAL – For normal viewing
3. SOFT – For night time viewing
4. PERSONAL – For personal viewing preference, afterwhen you have made adjustments to the picture settings

6. Sound Set (SMART Control)

You can set the sound in 4 different modes : **VOICE** , **MUSIC** , **THEATRE** or **PERSONAL**.

- Press the **sound set** button to cycle through the 4 settings and select the one that suit your preference.


VOICE
MUSIC
set
pict
sound
PERSONAL
THEATRE

Note :
The following is recommended for your listening pleasure.

1. VOICE – For news broadcast and dialogue programmes
2. MUSIC – For musical programmes
3. THEATRE – For movie programmes
4. PERSONAL – For personal listening preference, after you have made adjustments to the sound setting

7. Surround Sound

Surround Sound gives you a 'concert hall' effect from a **STEREO** sound broadcast. To create a surround sound effect, two surround sound loudspeakers (optional) have to be connected to the rear speakers' sockets.

- Press the **surround** button to switch on or off the surround sound mode.

set
pict
sound
surround
sleep
SURROUND

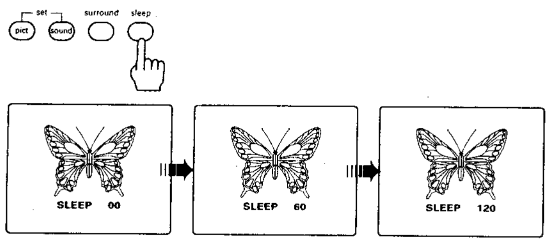
Note :

1. For details on speakers' connections, refer to section on 'Peripheral Equipment Connections'.
2. Surround sound only works with a stereo broadcasting or external stereo source via the Video and Audio sockets. The speakers must be connected in pairs.
3. If you have connected external speakers that are not shielded, place them at a distance away from the TV set. This will prevent the TV picture from being affected by the speakers' magnets.
4. If portions of the picture have poor colour because of temporary proximity of magnets, switch off the TV set with the MAIN POWER button on the left side of the TV and wait for about 15 minutes before switching on again.

8. Sleep Timer

With this feature you can select a time after which the TV set will switch to the stand-by mode automatically. The timer can be set in steps of 15 minutes starting from 0 up to a maximum of 120 minutes.

- Press the **sleep** button to switch on and cycle through the sleep timer mode.

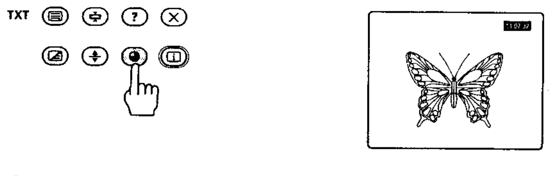

set
pict
sound
surround
sleep
SLEEP 00
SLEEP 60
SLEEP 120

- To stop the sleeptimer, press the **sleep** button until **00** minute is displayed.

9. Time Display

The time display can only be called up if the TV channel you are watching is also broadcasting teletext. If not, only a black box is displayed.

- Press the ◕ button to switch on the time display.
  The time is displayed at the upper right hand corner of the screen.

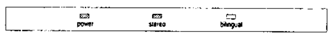


- Press the ◕ button again to switch off the time display.

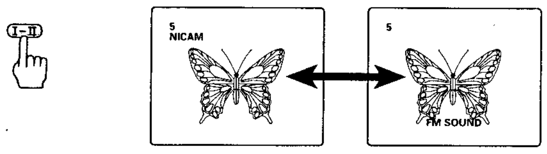
NICAM Digital Stereo

This feature is only applicable if the TV broadcast is transmitting **NICAM Digital stereo** sound. If not, you will receive either normal stereo or mono sound.

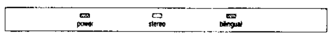
Your TV set is capable of receiving **NICAM** (Near Instantaneous Companded Audio Multiplex) sound. With NICAM you can experience a sound quality that is comparable to compact disc quality. When TV broadcast is transmitting digital stereo or stereo sound, a green LED light under the word stereo will be lighted at the front panel of the TV set.


power
stereo
bilingual

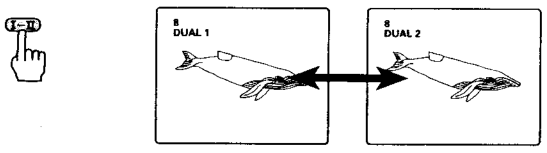
You can switch between **NICAM** sound and **FM SOUND** by pressing the **I-II** button.


I-II
5
NICAM
5
FM SOUND

When the TV broadcast is transmitting bilingual programme, a green LED light under the word bilingual will be lighted at the front of the TV set.


power
stereo
bilingual

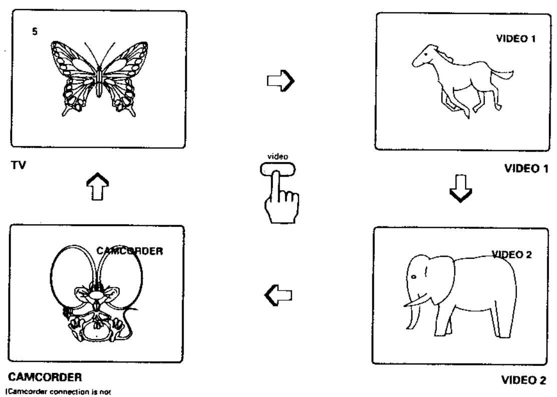
You can select either **DUAL 1** or **DUAL 2** sound mode by pressing the **I-II** button.


I-II
8
DUAL 1
8
DUAL 2

Selecting External Connection

You can view the following connection one at a time if they are connected to the TV set via the external connection sockets at the side of the TV set : **VIDEO 1** , **VIDEO 2** or **CAMCORDER** (not for 25" model).

- Press the **video** button on the remote control to select the respective external source. If there is no connection to the respective source inputs, there will be no picture for selection.

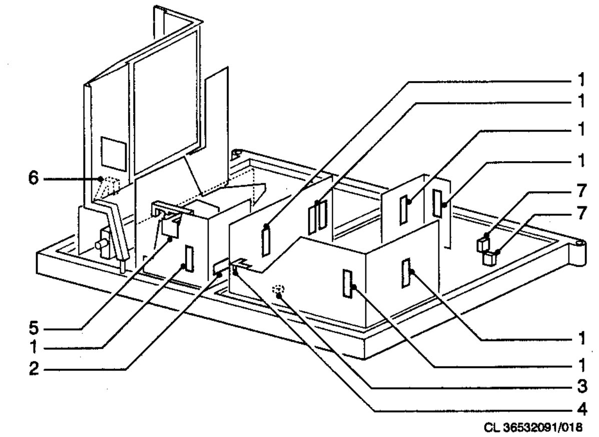

5
TV
VIDEO 1
VIDEO 1
video
CAMCORDER
CAMCORDER
VIDEO 2
VIDEO 2

(Camcorder connection is not available for model 25SX8761)

To return to the TV programme.

- Press the **video** or any digit button on the remote control until the TV programme appears.

Mechanical parts list



CL 36532091/018
260593

**MECHANICAL COMPONENTS
LSP AND SSP**

1	4822 492 70788	SPRING FIX IC
2	4822 492 70789	SPRING FIX TRANS
3	4822 273 50309	SWITCH 3P
4	4822 404 31059	BRACKET HEATSINK
5	4822 256 92089	BRACKET FOR MODULE
6	4822 404 31306	SUPPORT A-MODULE
7	4822 255 70281	NTC HOLDER

Large signal panel [A]

▲	4822 265 20439	2P MALE
	4822 264 40207	3P MALE
	4822 265 30796	4P MALE
	4822 267 40648	5P MALE GOLD PLATED
	4822 264 50149	10P MALE GOLD PLATED
	4822 265 40442	10P MALE
▲	4822 265 20366	1P
▲	4822 267 40646	2P
	4822 492 70789	SPRING FIX TRANS
	4822 492 70788	SPRING FIX IC
	4822 273 50309	SWITCH 3P
▲	4822 256 30274	FUSE HOLDER
	4822 255 70281	NTC HOLDER
	4822 404 31059	BRACKET

Various

1100	4822 070 34002	FUSE T4A
1125▲	4822 070 33152	FUSE T3.15A
1160▲	4822 071 52502	FUSE T2.5A
1171▲	4822 071 51602	FUSE T1.6A

⊣⊢

2100▲	4822 121 51457	470nF 10% 275V
2102	4822 121 70141	33nF 5% 400V
2103	4822 121 70141	33nF 5% 400V
2109	4822 121 42059	100nF 10% 400V
2110	4822 121 41935	12nF 5% 250V
2111	4822 121 42059	100nF 10% 400V
2112	4822 124 80681	330µF 20% 400V
2112	4822 124 80679	680µF 20% 400V
2113	4822 124 41643	100µF 20% 16V
2114	4822 124 80677	4,7µF 20% 400V
2115	4822 124 80677	4,7µF 20% 400V
2123	4822 126 11141	2,2nF 10% 1KV
2124	4822 126 11141	2,2nF 10% 1KV
2127	4822 126 11141	2,2nF 10% 1KV
2128	4822 124 41891	680µF 250V
2128	4822 124 80679	680µF 20% 400V
2130	4822 126 11824	100pF 10% 1KV
2131	4822 126 12833	4,7nF 2KV
2132▲	4822 126 11382	1nF 10% 1KV
2134	4822 121 40347	6,8nF 10% 400V
2137	4822 126 11975	470pF 5% N1500
2138	4822 122 40606	22nF 80% 50V
2139	4822 124 41643	100µF 20% 16V
2140	5322 122 32491	1000pF 20% 100V
2142	4822 124 41443	1µF 20% 50V
2144	4822 121 42408	220nF 5% 63V
2145	4822 121 41856	22nF 5% 250V
2146▲	4822 122 33284	470pF 5% 400V
2148▲	4822 122 40602	1nF 5% 400V
2149▲	4822 122 40602	1nF 5% 400V
2150▲	4822 126 12269	680pF 10% 2KV
2151	4822 124 22349	100µF 160V
2152	4822 124 22349	100µF 160V
2154	4822 126 12639	2,2nF

⊣⊢

2155	4822 126 12639	2,2nF
2162	4822 124 23495	10µF 20% 25V
2163	4822 124 42105	1000µF 20% 50V
2173	4822 124 22582	2,2mF 20% 16V
2192	4822 124 22582	2,2mF 20% 16V
2194	4822 124 23495	10µF 20% 25V
2800	4822 121 41857	10nF 5% 250V
2801	4822 121 41857	10nF 5% 250V
2802	4822 121 51299	1nF 10% 50V
2803	5322 122 32311	470pF 10% 100V
2804	4822 124 40255	100µF 20% 63V
2806	5322 121 42386	100nF 5% 63V
2808	4822 121 42408	220nF 5% 63V
2810	4822 124 42106	1500µF 20% 35V
2811	4822 124 42106	1500µF 20% 35V
2816	4822 124 41576	2,2µF 20% 50V
2901	4822 121 41689	100nF 10% 250V
2902	4822 124 80676	4,7µF 20% 160V
2903▲	4822 126 12239	560pF 10% 2KV
2904▲	4822 122 33382	9,1nF 5% 2000V
2905	4822 121 70365	39nF 10% 400V
2906	5322 121 44355	3,6nF 5% 2KV
2910	4822 121 51442	2,2nF 10% 50V
2920	4822 124 40764	22µF 100V
2921	4822 126 11958	2,2nF 10% 500V
2922	4822 124 40435	10µF 20% 50V
2930	4822 126 11141	2,2nF 10% 1KV
2931	4822 124 40201	1000µF 20% 16V
2940	4822 126 11958	2,2nF 10% 500V
2941	5322 124 41468	1000µF 20% 40V
2943	4822 121 41982	15nF 10% 400V
2944	4822 121 43343	4,7nF 10% 400V
2945	4822 121 51563	560nF 5% 250V
2946	4822 121 51563	560nF 5% 250V
2951	4822 121 51593	180nF 250V
2952	4822 121 51593	180nF 250V
2953	4822 124 40756	1µF 20% 100V
2955	4822 121 51252	470nF 5% 63V
2960	4822 121 40516	22nF 10% 250V
2962	4822 121 43526	47nF 5% 100V
2980	4822 124 40772	6,8µF 20% 100V
2983	4822 121 43396	120nF 5% 63V
2990	5322 121 42386	100nF 5% 63V
2991	4822 124 40744	68µF 20% 40V

▭

3101	4822 111 20403	470Ω 10%
3102	4822 116 21216	VDR
3103	4822 111 20403	470Ω 10%
3103	4822 111 20403	470Ω 10%
3104	4822 116 40249	PTC 20Ω 265V
3105	4822 116 40247	PTC 18Ω 270V
3105	4822 116 40249	PTC 20Ω 265V
3107	4822 116 30451	NTC
3108	4822 116 30451	NTC
3110	4822 053 11478	4Ω7 5% 2W
3114	4822 053 11228	2Ω2 5% 2W

▭

3130	4822 116 52182	15Ω 5% 0,5W
3131	4822 117 10452	47k 5% 3W
3132	4822 116 52175	100Ω 5% 0,5W
3134	4822 050 22704	270k 1% 0,6W
3135	4822 116 52286	5k 1 5% 0,5W
3136	4822 050 28204	820k 1% 0,6W
3137	4822 050 24708	4Ω7 1% 0,6W
3138	4822 053 11333	33k 5% 2W
3140▲	4822 052 10479	47Ω 5% 0,33W
3141	4822 116 52233	10k 5% 0,5W
3142	4822 100 11391	330Ω 30%lin 0,1W
3143▲	4822 116 52283	4k 7 5% 0,5W
3144▲	4822 116 52215	220Ω 5% 0,5W
3145▲	4822 116 52219	330Ω 5% 0,5W
3148▲	4822 053 21225	2M 2 5% 0,5W
3149▲	4822 053 21475	4M 7 5% 0,5W
3150	4822 116 52234	100k 5% 0,5W
3151	4822 116 52244	15k 5% 0,5W
3152	4822 116 52297	68k 5% 0,5W
3153	4822 116 52251	18k 5% 0,5W
3155	4822 053 11223	22k 5% 2W
3156	4822 053 11153	15k 5% 2W
3160	4822 117 10453	0Ω 68 3W
3161	4822 117 10453	0Ω 68 3W
3165	4822 050 11002	1k 1% 0,4W
3166	4822 116 52256	2k 2 5% 0,5W
3167	4822 050 11002	1k 1% 0,4W
3168	4822 116 52206	120Ω 5% 0,5W
3190▲	4822 052 10108	1Ω 5% 0,33W
3800	4822 116 52263	2k 7 5% 0,5W
3801▲	4822 116 52283	4k 7 5% 0,5W
3802▲	4822 116 52283	4k 7 5% 0,5W
3803	4822 116 52233	10k 5% 0,5W
3804	4822 116 52228	680Ω 5% 0,5W
3805▲	4822 050 22701	270Ω 1% 0,6W
3806	4822 116 52231	820Ω 5% 0,5W
3807▲	4822 050 23301	330Ω 1% 0,6W
3808	4822 050 11002	1k 1% 0,4W
3810	4822 116 82097	3Ω 5% 0,5W
3811	4822 116 82097	3Ω 5% 0,5W
3812▲	4822 116 80676	1Ω 5 5% 0,5W
3813▲	4822 116 80676	1Ω 5 5% 0,5W
3814	4822 116 80176	1Ω 5% 0,5W
3815	4822 116 52252	180k 5% 0,5W
3816	4822 116 52233	10k 5% 0,5W
3816	4822 116 52306	9k 1 5% 0,5W
3816	4822 116 52306	9k 1 5% 0,5W
3817▲	4822 116 52269	3k 3 5% 0,5W
3818	4822 050 21502	1k5 1% 0,6W
3900	4822 117 10451	3k 9 10% 7W
3901	4822 116 52277	39k 5% 0,5W
3902	4822 116 52186	22Ω 5% 0,5W
3903	4822 116 52191	33Ω 5% 0,5W
3910▲	4822 052 11471	470Ω 5% 0,5W
3921▲	4822 052 11159	15Ω 5% 0,5W
3922▲	4822 052 11159	15Ω 5% 0,5W
3930▲	4822 052 11108	1Ω 0 5% 0,5W
3931▲	4822 052 11108	1Ω 0 5% 0,5W
3940▲	4822 052 11228	2Ω 2 5% 0,5W

▭

3941▲	4822 052 11228	2Ω 2 5% 0,5W
3943▲	4822 052 11478	4Ω 7 5% 0,5W
3944	4822 116 52235	1M 5% 0,5W
3951▲	4822 052 11102	1k 0 5% 0,5W
3952	4822 116 52264	27k 5% 0,5W
3955	4822 116 52234	100k 5% 0,5W
3956	4822 116 52285	470k 5% 0,5W
3957	4822 116 52233	10k 5% 0,5W
3960	4822 050 21803	18k 0 1% 0,6W
3961	4822 116 52305	820k 5% 0,5W
3962	4822 116 52257	22k 5% 0,5W
3963	4822 116 52297	68k 5% 0,5W
3964▲	4822 050 23302	3k3 1% 0,6W
3981	4822 116 52256	2k 2 5% 0,5W
3982	4822 050 11002	1k 1% 0,4W
3983	4822 116 52233	10k 5% 0,5W
3984	4822 116 52234	100k 5% 0,5W
3985	4822 116 52234	100k 5% 0,5W
3986	4822 050 11002	1k 1% 0,4W
3987	4822 100 11213	22k 30%lin 0,1W
3988	4822 050 11002	1k 1% 0,4W
3990	4822 116 52263	2k 7 5% 0,5W
3991	4822 100 20166	10k 30%LIN 0,1W
3992	4822 116 52228	680Ω 5% 0,5W
3993	4822 116 52234	100k 5% 0,5W
3995	4822 050 11002	1k 1% 0,4W
3995	4822 050 11002	1k 1% 0,4W
3996	4822 116 52263	2k 7 5% 0,5W

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5100	4822 157 10294	MAINS TER
5101	4822 157 10297	MAINS TER
5130	4822 148 81347	SOPS G8
5132	4822 157 63506	FBA
5151	5322 157 53568	33µH
5152	4822 156 20915	33µH
5161	4822 157 63506	FBA
5170	4822 156 20915	33µH
5180	4822 156 20915	33µH
5900▲	4822 140 10469	L.O.T. 29" G8
5900▲	4822 140 10471	L.O.T. 25" G8
5902▲	4822 148 80943	L.O.T. DRIVE
5904	4822 157 53139	4,7µH
5910▲	4822 157 52505	33µH 10%
5921	4822 157 52392	27µH
5945▲	4822 157 52472	1,04mH
5951▲	4822 157 52688	
5960	4822 157 53139	4,7µH
5980▲	4822 158 10728	11µH

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6100	4822 130 34142	BZX79-C33
6101	4822 130 34142	BZX79-C33
6102	4822 130 34142	BZX79-C33
6103	4822 130 34142	BZX79-C33
6114	4822 130 81766	GP15K-16
6129	4822 130 82892	BRIDGE RECT D5SBA60S

Electrical parts lists

▶|

6130▲	4822 130 31631	BYV10-20
6131	4822 130 42606	BYD33J
6133	4822 130 34233	BZX79-C5V1
6137▲	4822 130 30621	1N4148
6141▲	4822 130 30621	1N4148
6150	4822 130 81123	BY229F-800
6151	4822 130 34281	BZX79-C15
6152▲	4822 130 30621	1N4148
6153▲	4822 130 30621	1N4148
6154	4822 130 34173	BZX79-C5V6
6160	4822 130 81175	BYD74G
6161	4822 130 81175	BYD74G
6170	4822 130 30862	BZX79-C9V1
6171	4822 130 81175	BYD74G
6172	4822 130 81175	BYD74G
6181	4822 130 34233	BZX79-C5V1
6190	4822 130 42606	BYD33J
6804	4822 130 42488	BYD33D
6902	4822 130 42488	BYD33D
6904▲	4822 130 41275	BY228
6905	4822 130 81175	BYD74G
6906	4822 130 81175	BYD74G
6920	4822 130 42488	BYD33D
6921	4822 130 42489	BYD33G
6922	4822 130 42489	BYD33G
6930	4822 130 32772	EGP20C
6931	4822 130 32772	EGP20C
6940	4822 130 42489	BYD33G
6943	4822 130 42489	BYD33G
6944	4822 130 42489	BYD33G
6951	4822 130 42489	BYD33G
6952	4822 130 42488	BYD33D
6955	4822 130 34329	BZX79-C43
6963	4822 130 34167	BZX79-C6V2
6992▲	4822 130 30621	1N4148
6993▲	4822 130 30621	1N4148

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7110	4822 209 32584	STR80145A
7130	4822 130 63389	STH12N60SI
7140	4822 209 31528	TDA4605-3
7151	4822 130 41646	BF423
7166	4822 209 32585	LM350
7167	4822 130 44196	BC548C
7174▲	4822 209 80891	MC78M05CT
7192	5322 209 11222	MC7905CT
7800	4822 209 73308	TDA3654Q/N3
7902	4822 130 42159	BF819
7903	4822 130 43921	2SD1577PV
7955▲	4822 130 44256	BC557
7980	4822 130 63015	BD440
7981	4822 130 41001	BC546
7991	4822 130 40938	BC548

Small signal panel [A],[B],[C],[E],[F].

▲	4822 265 20366	1P MALE
▲	4822 265 30389	2P MALE
	4822 264 40207	3P MALE
	4822 265 30378	4P MALE
	4822 265 30351	5P MALE
	4822 267 50591	6P MALE GOLD PLATED
	4822 265 40421	6P MALE
	4822 265 40822	7P MALE
	4822 264 50148	8P MALE GOLD PLATED
	4822 267 50861	8P
	4822 265 40442	10P MALE
▲	4822 256 30274	FUSE HOLDER
	4822 492 70788	SPRING FIX IC
	4822 492 70789	SPRING FIX TRANS
	4822 256 92089	BRACKET FOR MODULE
	4822 404 31306	SUPPORT A-MODULE

Various

1220	4822 242 81449	LN-X-0008 (12MHz)
1301	4822 210 50124	UV916E/IEC
1301	4822 210 10466	UV914/IEC
1308	4822 210 10566	FS936E/F
1334	4822 242 72553	OFWJ3251
1334	4822 242 81549	38,9MHz OFWG3264K
1334	4822 242 72554	OFWG3254
1335	4822 242 72197	OFWK2950M
1367	4822 242 71207	TPS4,5MB
1368	4822 153 30025	6MHz
1368	4822 242 81386	TPS5,8MB
1368	4822 242 81385	TPS5,74MB
1369	4822 242 72086	TPS5,5MB
1400	4822 209 63796	NTSC COMBFILTER
1424	4822 320 40257	DELAY LINE 160NS
1461	4822 242 70304	8,867 238 MHz RW43
1462	4822 242 70736	7,159 090 MHz NR-18
1680▲	4822 071 51602	FUSE T1.6A
1810	4822 320 40302	150NS SDL-2055

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2220	4822 122 31797	22nF 10% 63V
2221▲	4822 122 32442	10nF 50V
2222▲	4822 122 32442	10nF 50V
2223	4822 124 40242	1µF 20% 63V
2224	4822 122 31825	27pF 2% 63V
2225	4822 122 31825	27pF 2% 63V
2226	4822 122 31825	27pF 2% 63V
2227	4822 122 31825	27pF 2% 63V
2228▲	4822 122 32442	10nF 50V
2229▲	4822 122 32442	10nF 50V
2230	4822 122 31784	4,7nF 10% 50V
2231	4822 122 31839	82pF 2% 63V
2232	4822 122 31839	82pF 2% 63V
2235	4822 122 31839	82pF 2% 63V
2236	4822 122 31839	82pF 2% 63V
2240	4822 124 40242	1µF 20% 63V
2256	4822 122 31839	82pF 2% 63V
2257	4822 122 31839	82pF 2% 63V
2258	4822 122 31839	82pF 2% 63V
2263	4822 122 31839	82pF 2% 63V
2264	4822 122 31839	82pF 2% 63V
2265	4822 122 31839	82pF 2% 63V
2270	4822 122 32542	47nF 10% 63V
2274	4822 122 31839	82pF 2% 63V
2275	4822 122 31839	82pF 2% 63V
2300	4822 124 40272	33µF 20% 16V
2303	4822 124 40272	33µF 20% 16V
2304	4822 122 33496	100nF 10% 63V
2305	4822 122 31781	1500pF 10% 50V
2306▲	4822 122 32442	10nF 50V
2307▲	4822 124 40196	220µF 20% 16V
2330	4822 122 31797	22nF 10% 63V
2331▲	4822 122 32442	10nF 50V
2332	4822 122 31774	56pF 2% 63V
2333	4822 122 32079	3,3pF 5% 50V
2333	4822 126 10324	33pF 2% 63V
2333	4822 122 31772	47pF 2% 63V
2334▲	4822 122 32442	10nF 50V
2350	4822 124 40243	1,5µF 20% 63V
2351▲	4822 122 32442	10nF 50V
2352▲	4822 122 32442	10nF 50V
2353	4822 126 11147	0,82pF 10% 63V
2354	4822 126 11147	0,82pF 10% 63V
2355	4822 122 32504	15pF 2% 63V
2356▲	4822 122 32442	10nF 50V
2357	4822 122 31644	2,2nF 10% 63V
2358	4822 122 31772	47pF 2% 63V
2359	5322 124 41431	22µF 20% 35V
2360	4822 124 40242	1µF 20% 63V
2362▲	4822 124 40196	220µF 20% 16V
2384▲	4822 124 40196	220µF 20% 16V
2380	4822 121 51319	1µF 10% 63V
2381	4822 122 31784	4,7nF 10% 50V
2382	4822 124 41577	4,7µF 20% 50V
2383	4822 122 33496	100nF 10% 63V
2384▲	4822 124 40196	220µF 20% 16V
2401	4822 124 41643	100µF 20% 16V

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2402	4822 122 33496	100nF 10% 63V
2420	4822 122 31768	180pF 2% 63V
2422	4822 126 10324	33pF 2% 63V
2425	4822 124 40242	1µF 20% 63V
2427	4822 122 33496	100nF 10% 63V
2428	4822 124 40272	33µF 20% 16V
2429	4822 122 31746	1000pF 2% 63V
2438	4822 122 31769	18pF 2% 63V
2438	4822 122 31825	27pF 2% 63V
2439	4822 122 31965	220pF 2% 63V
2439	4822 122 31768	180pF 2% 63V
2440	4822 122 31765	100pF 2% 63V
2440	4822 122 31961	68pF 2% 63V
2441	4822 122 31772	47pF 2% 63V
2462	4822 122 31772	47pF 2% 63V
2463	4822 122 31767	150pF 2% 63V
2464	4822 122 31766	120pF 2% 63V
2465	4822 122 31727	470pF 2% 63V
2466	4822 122 32765	820pF 2% 63V
2466	4822 122 31807	1200pF 2% 63V
2467	4822 122 31768	180pF 2% 63V
2468	4822 122 31767	150pF 2% 63V
2469▲	4822 122 32442	10nF 50V
2470▲	4822 122 32442	10nF 50V
2471▲	4822 122 32442	10nF 50V
2472	5322 121 42661	330nF 5% 63V
2473	4822 122 31797	22nF 10% 63V
2474	4822 122 31797	22nF 10% 63V
2475	5322 121 42661	330nF 5% 63V
2476	4822 122 32542	47nF 10% 63V
2477	4822 122 33496	100nF 10% 63V
2478	4822 124 40272	33µF 20% 16V
2479	4822 124 40849	330µF 20% 16V
2480▲	4822 124 40196	220µF 20% 16V
2481	4822 122 31767	150pF 2% 63V
2482	4822 122 31825	27pF 2% 63V
2483	4822 122 31727	470pF 2% 63V
2484	4822 122 31727	470pF 2% 63V
2483	4822 122 31727	470pF 2% 63V
2484	4822 122 31727	470pF 2% 63V
2485	4822 122 31965	220pF 2% 63V
2486	4822 122 31965	220pF 2% 63V
2487▲	4822 122 32442	10nF 50V
2488▲	4822 122 32442	10nF 50V
2490	4822 125 50534	20pF 150V
2491	4822 125 50534	20pF 150V
2497	4822 122 32082	4,7pF 5% 50V
2498	4822 122 32082	4,7pF 5% 50V
2499	4822 122 31746	1000pF 2% 63V
2500	4822 122 31746	1000pF 2% 63V
2501	4822 124 40435	10µF 20% 50V
2502	4822 122 33496	100nF 10% 63V
2503	4822 122 33496	100nF 10% 63V
2504	4822 124 40435	10µF 20% 50V
2505	5322 121 42498	680nF 5% 63V
2506	4822 122 31797	22nF 10% 63V
2507	4822 122 31825	27pF 2% 63V
2530	4822 122 32482	22pF 2% 63V
2531▲	4822 122 32442	10nF 50V
2532	4822 122 32482	22pF 2% 63V
2533▲	4822 122 32442	10nF 50V
2534	4822 122 31839	82pF 2% 63V
2535	4822 122 31839	82pF 2% 63V
2536▲	4822 124 40433	47µF 20% 25V
2537	4822 122 31797	22nF 10% 63V
2538	4822 122 32927	220nF +80-20% 50V
2539	4822 122 33496	100nF 10% 63V
2540	4822 122 33496	100nF 10% 63V
2541	4822 122 32927	220nF +80-20% 50V
2542	4822 122 32927	220nF +80-20% 50V
2543	4822 122 33496	100nF 10% 63V
2550	4822 122 32927	220nF +80-20% 50V
2551	4822 122 32927	220nF +80-20% 50V
2552	4822 122 33496	100nF 10% 63V
2553	4822 124 40242	1µF 20% 63V
2554▲	4822 124 40433	47µF 20% 25V
2555	4822 124 41596	22µF 20% 50V
2556	4822 122 31797	22nF 10% 63V

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2557	4822 122 31839	82pF 2% 63V
2558	4822 122 31839	82pF 2% 63V
2559	4822 124 40435	10µF 20% 50V
2560	4822 122 32927	220nF +80-20% 50V
2562	4822 122 31774	56pF 2% 63V
2563	4822 122 31774	56pF 2% 63V
2564	4822 122 31774	56pF 2% 63V
2565	4822 122 31797	22nF 10% 63V
2566	4822 122 31797	22nF 10% 63V
2567	4822 122 31797	22nF 10% 63V
2568	4822 122 31797	22nF 10% 63V
2569	4822 122 31797	22nF 10% 63V
2570	4822 122 31797	22nF 10% 63V
2571	4822 124 40242	1µF 20% 63V
2572	5322 121 42661	330nF 5% 63V
2573	4822 122 32927	220nF +80-20% 50V
2574	4822 122 32927	220nF +80-20% 50V
2575	4822 122 32927	220nF +80-20% 50V
2576	4822 124 40435	10µF 20% 50V
2600	4822 122 32927	220nF +80-20% 50V
2602	4822 122 33496	100nF 10% 63V
2603	4822 124 40272	33µF 20% 16V
2604	4822 122 32927	220nF +80-20% 50V
2606	4822 124 40272	33µF 20% 16V
2607	4822 122 31784	4,7nF 10% 50V
2608	4822 121 41854	150nF 5% 63V
2609	4822 124 40214	1000µF 20% 25V
2610	4822 124 40242	1µF 20% 63V
2611	4822 124 22347	47MU 50V
2612	4822 122 33496	100nF 10% 63V
2613	4822 122 33496	100nF 10% 63V
2614	5322 124 40642	47µF 20% 50V
2621	4822 122 32927	220nF +80-20% 50V
2627	4822 124 41509	33µF 20% 35V
2631	4822 122 32927	220nF +80-20% 50V
2637	4822 124 41509	33µF 20% 35V
2638	4822 124 41997	470µF 10V
2639	4822 124 41997	470µF 10V
2660	4822 124 41577	4,7µF 20% 50V
2661	4822 124 41577	4,7µF 20% 50V
2662	4822 122 31784	4,7nF 10% 50V
2663	4822 122 31784	4,7nF 10% 50V
2664	4822 124 40214	1000µF 20% 25V
2666	4822 124 80682	470µF 20% 16V
2667	4822 122 31782	15000pF 10% 50V
2668	4822 124 41576	2,2µF 20% 50V
2670▲	4822 124 40433	47µF 20% 25V
2671	4822 122 32765	820pF 2% 63V
2672▲	4822 124 40433	47µF 20% 25V
2673	4822 122 32765	820pF 2% 63V
2674▲	4822 124 40433	47µF 20% 25V
2675▲	4822 124 41525	100µF 20% 25V
2678	4822 124 40214	1000µF 20% 25V
2679	4822 121 43396	120nF 5% 63V
2680	4822 124 22494	2200MU 25V
2681	4822 121 43396	120nF 5% 63V
2682	4822 124 80683	470µF 20% 25V
2683	4822 121 43396	120nF 5% 63V
2684	4822 124 80683	470µF 20% 25V
2685	4822 124 41577	4,7µF 20% 50V
2686	4822 124 41577	4,7µF 20% 50V
2687	4822 124 80682	470µF 20% 16V
2688	4822 124 41577	4,7µF 20% 50V
2689	4822 124 41577	4,7µF 20% 50V
2690	4822 122 31759	18nF
2691	4822 122 31759	18nF
2702▲	4822 122 32442	10nF 50V
2707	4822 122 33496	100nF 10% 63V
2712	4822 122 31765	100pF 2% 63V
2719	4822 124 41576	2,2µF 20% 50V
2720	4822 124 41596	22µF 20% 50V
2721	4822 124 41596	22µF 20% 50V
2722	4822 122 33496	100nF 10% 63V
2723	4822 121 42937	2.7nF 1% 250V
2724	4822 122 31775	680pF 2% 63V

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2725	4822 122
2728▲	4822 122
2731	4822 122
2737	4822 122
2740	4822 121
2741	4822 121
2742▲	4822 124
2744▲	4822 122
2750▲	4822 122
2751	4822 124
2752	4822 121
2753	4822 122
2754	4822 122
2755	4822 122
2756	4822 122
2757	4822 122
2758▲	4822 122
2759	4822 122
2800▲	4822 124
2801	4822 124
2804	4822 124
2814	4822 122
2817	4822 122
2819	4822 122
2823▲	4822 124
2826	4822 126
2827	5322 122
2828▲	4822 122
2832	4822 122
2834▲	4822 122

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3220▲	4822 051
3221	4822 116
3222	4822 051
3223	4822 116
3224	4822 116
3225▲	4822 051
3226▲	4822 051
3227	4822 116
3228	4822 116
3229▲	4822 116
3230▲	4822 051
3231	4822 116
3232	4822 116
3233	4822 051
3234▲	4822 051
3236▲	4822 051
3237▲	4822 051
3238▲	4822 051
3239	4822 116
3240▲	4822 051
3241▲	4822 051
3242	4822 051
3243	4822 051
3244	4822 051
3246▲	4822 051
3247▲	4822 051
3248	4822 051
3249	4822 116
3250	4822 116
3251	4822 116
3252	4822 051
3253	4822 051
3254▲	4822 051
3256▲	4822 051
3257▲	4822 051
3258▲	4822 051
3259▲	4822 116
3260	4822 050
3261	4822 116
3263▲	4822 051
3264▲	4822 051
3265▲	4822 051
3267	4822 116
3268	4822 116
3270	4822 116
3271▲	4822 051
3272	4822 051
3273▲	4822 051
3274▲	4822 051
3275▲	4822 051
3276	4822 116

Electrical parts lists

: IC
: TRANS

IEATSINK
OR MODULE
.-MODULE
:R

052 11228	2Ω 2 5% 0,5W
052 11478	4Ω 7 5% 0,5W
116 52235	1M 5% 0,5W
052 11102	1k 0 5% 0,5W
116 52264	27k 5% 0,5W
116 52234	100k 5% 0,5W
116 52285	470k 5% 0,5W
116 52233	10k 5% 0,5W
050 21803	18k 0 1% 0,6W
116 52305	820k 5% 0,5W
116 52257	22k 5% 0,5W
116 52297	68k 5% 0,5W
050 23302	3k3 1% 0,6W
116 52256	2k 2 5% 0,5W
050 11002	1k 1% 0,4W
116 52233	10k 5% 0,5W
116 52234	100k 5% 0,5W
116 52234	100k 5% 0,5W
050 11002	1k 1% 0,4W
100 11213	22k 30%lin 0,1W
050 11002	1k 1% 0,4W
116 52263	2k 7 5% 0,5W
100 20166	10k 30%LIN 0,1W
116 52228	680Ω 5% 0,5W
116 52234	100k 5% 0,5W
050 11002	1k 1% 0,4W
050 11002	1k 1% 0,4W
116 52263	2k 7 5% 0,5W

157 10294	MAINS TER
157 10297	MAINS TER
148 81347	SOPS G8
157 63506	FBA
157 53568	33μH
156 20915	33μH
157 63506	FBA
156 20915	33μH
156 20915	33μH
140 10469	L.O.T. 29" G8
140 10471	L.O.T. 25" G8
148 80943	L.O.T. DRIVE
157 53139	4,7μH
157 52505	33μH 10%
157 52392	27μH
157 52472	1,04mH
157 52688	
157 53139	4,7μH
158 10728	11μH

130 34142	BZX79-C33
130 34142	BZX79-C33
130 34142	BZX79-C33
130 34142	BZX79-C33
130 81766	GP15K-16
130 82892	BRIDGE RECT D5SBA60S

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6130▲	4822 130 31631	BYV10-20
6131	4822 130 42606	BYD33J
6133	4822 130 34233	BZX79-C5V1
6137▲	4822 130 30621	1N4148
6141▲	4822 130 30621	1N4148
6150	4822 130 81123	BY229F-800
6151	4822 130 34281	BZX79-C15
6152▲	4822 130 30621	1N4148
6153▲	4822 130 30621	1N4148
6154	4822 130 34173	BZX79-C5V6
6160	4822 130 81175	BYD74G
6161	4822 130 81175	BYD74G
6170	4822 130 30862	BZX79-C9V1
6171	4822 130 81175	BYD74G
6172	4822 130 81175	BYD74G
6181	4822 130 34233	BZX79-C5V1
6190	4822 130 42606	BYD33J
6804	4822 130 42488	BYD33D
6902	4822 130 42488	BYD33D
6904▲	4822 130 41275	BY228
6905	4822 130 81175	BYD74G
6906	4822 130 81175	BYD74G
6920	4822 130 42488	BYD33D
6921	4822 130 42489	BYD33G
6922	4822 130 42489	BYD33G
6930	4822 130 32772	EGP20C
6931	4822 130 32772	EGP20C
6940	4822 130 42489	BYD33G
6943	4822 130 42489	BYD33G
6944	4822 130 42489	BYD33G
6951	4822 130 42489	BYD33G
6952	4822 130 42488	BYD33D
6955	4822 130 34329	BZX79-C43
6963	4822 130 34167	BZX79-C6V2
6992▲	4822 130 30621	1N4148
6993▲	4822 130 30621	1N4148

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7110	4822 209 32584	STR80145A
7130	4822 130 63389	STH12N60SI
7140	4822 209 31528	TDA4605-3
7151	4822 130 41646	BF423
7166	4822 209 32585	LM350
7167	4822 130 44196	BC548C
7174▲	4822 209 80891	MC78M05CT
7192	5322 209 11222	MC7905CT
7800	4822 209 73308	TDA3654Q/N3
7902	4822 130 42159	BF819
7903	4822 130 43921	2SD1577PV
7955▲	4822 130 44256	BC557
7980	4822 130 63015	BD440
7981	4822 130 41001	BC546
7991	4822 130 40938	BC548

Small signal panel [A],[B],[C],[E],[F].

▲	4822 265 20366	1P MALE
▲	4822 265 30389	2P MALE
	4822 264 40207	3P MALE
	4822 265 30378	4P MALE
	4822 265 30351	5P MALE
	4822 267 50591	6P MALE GOLD PLATED
	4822 265 40421	6P MALE
	4822 265 40822	7P MALE
	4822 264 50148	8P MALE GOLD PLATED
	4822 267 50861	8P
	4822 265 40442	10P MALE
▲	4822 256 30274	FUSE HOLDER
	4822 492 70788	SPRING FIX IC
	4822 492 70789	SPRING FIX TRANS
	4822 256 92089	BRACKET FOR MODULE
	4822 404 31306	SUPPORT A-MODULE

Various

1220	4822 242 81449	LN-X-0008 (12MHz)
1301	4822 210 50124	UV916E/IEC
1301	4822 210 10466	UV914/IEC
1308	4822 210 10566	FS936E/F
1334	4822 242 72553	OFWJ3251
1334	4822 242 81549	38,9MHz OFWG3264K
1334	4822 242 72554	OFWG3254
1335	4822 242 72197	OFWK2950M
1367	4822 242 71207	TPS4,5MB
1368	4822 153 30025	6MHz
1368	4822 242 81386	TPS5,8MB
1368	4822 242 81385	TPS5,74MB
1369	4822 242 72086	TPS5,5MB
1400	4822 209 63796	NTSC COMBFILTER
1424	4822 320 40257	DELAY LINE 160NS
1461	4822 242 70304	8,867 238 MHz RW43
1462	4822 242 70736	7,159 090 MHz NR-18
1680▲	4822 071 51602	FUSE T1.6A
1810	4822 320 40302	150NS SDL-2055

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2220	4822 122 31797	22nF 10% 63V
2221▲	4822 122 32442	10nF 50V
2222▲	4822 122 32442	10nF 50V
2223	4822 124 40242	1μF 20% 63V
2224	4822 122 31825	27pF 2% 63V
2225	4822 122 31825	27pF 2% 63V
2226	4822 122 31825	27pF 2% 63V
2227	4822 122 31825	27pF 2% 63V
2228▲	4822 122 32442	10nF 50V
2229▲	4822 122 32442	10nF 50V
2230	4822 122 31784	4,7nF 10% 50V
2231	4822 122 31839	82pF 2% 63V
2232	4822 122 31839	82pF 2% 63V
2235	4822 122 31839	82pF 2% 63V
2236	4822 122 31839	82pF 2% 63V
2240	4822 124 40242	1μF 20% 63V
2256	4822 122 31839	82pF 2% 63V
2257	4822 122 31839	82pF 2% 63V
2258	4822 122 31839	82pF 2% 63V
2263	4822 122 31839	82pF 2% 63V
2264	4822 122 31839	82pF 2% 63V
2265	4822 122 31839	82pF 2% 63V
2270	4822 122 32542	47nF 10% 63V
2274	4822 122 31839	82pF 2% 63V
2275	4822 122 31839	82pF 2% 63V
2300	4822 124 40272	33μF 20% 16V
2303	4822 124 40272	33μF 20% 16V
2304	4822 122 33496	100nF 10% 63V
2305	4822 122 31781	1500pF 10% 50V
2306▲	4822 122 32442	10nF 50V
2307▲	4822 124 40196	220μF 20% 16V
2330	4822 122 31797	22nF 10% 63V
2331▲	4822 122 32442	10nF 50V
2332	4822 122 31774	56pF 2% 63V
2333	4822 122 32079	3,3pF 5% 50V
2333	4822 126 10324	33pF 2% 63V
2333	4822 122 31772	47pF 2% 63V
2334▲	4822 122 32442	10nF 50V
2350	4822 124 40243	1,5μF 20% 63V
2351▲	4822 122 32442	10nF 50V
2352▲	4822 122 32442	10nF 50V
2353	4822 126 11147	0,82pF 10% 63V
2354	4822 126 11147	0,82pF 10% 63V
2355	4822 122 32504	15pF 2% 63V
2356▲	4822 122 32442	10nF 50V
2357	4822 122 31644	2,2nF 10% 63V
2358	4822 122 31772	47pF 2% 63V
2359	5322 124 41431	22μF 20% 35V
2360	4822 124 40242	1μF 20% 63V
2362▲	4822 124 40196	220μF 20% 16V
2384▲	4822 124 40196	220μF 20% 16V
2380	4822 121 51319	1μF 10% 63V
2381	4822 122 31784	4,7nF 10% 50V
2382	4822 124 41577	4,7μF 20% 50V
2383	4822 122 33496	100nF 10% 63V
2384▲	4822 124 40196	220μF 20% 16V
2401	4822 124 41643	100μF 20% 16V
2402	4822 122 33496	100nF 10% 63V
2420	4822 122 31768	180pF 2% 63V
2422	4822 126 10324	33pF 2% 63V
2425	4822 124 40242	1μF 20% 63V
2427	4822 122 33496	100nF 10% 63V
2428	4822 124 40272	33μF 20% 16V
2429	4822 122 31746	1000pF 2% 63V
2438	4822 122 31769	18pF 2% 63V
2438	4822 122 31825	27pF 2% 63V
2439	4822 122 31965	220pF 2% 63V
2439	4822 122 31768	180pF 2% 63V
2440	4822 122 31765	100pF 2% 63V
2440	4822 122 31961	68pF 2% 63V
2441	4822 122 31772	47pF 2% 63V
2462	4822 122 31772	47pF 2% 63V
2463	4822 122 31767	150pF 2% 63V
2464	4822 122 31766	120pF 2% 63V
2465	4822 122 31727	470pF 2% 63V
2466	4822 122 32765	820pF 2% 63V
2466	4822 122 31807	1200pF 2% 63V
2467	4822 122 31768	180pF 2% 63V
2468	4822 122 31767	150pF 2% 63V
2469▲	4822 122 32442	10nF 50V
2470▲	4822 122 32442	10nF 50V
2471▲	4822 122 32442	10nF 50V
2472	5322 121 42661	330nF 5% 63V
2473	4822 122 31797	22nF 10% 63V
2474	4822 122 31797	22nF 10% 63V
2475	5322 121 42661	330nF 5% 63V
2476	4822 122 32542	47nF 10% 63V
2477	4822 122 33496	100nF 10% 63V
2478	4822 124 40272	33μF 20% 16V
2479	4822 124 40849	330μF 20% 16V
2480▲	4822 124 40196	220μF 20% 16V
2481	4822 122 31767	150pF 2% 63V
2482	4822 122 31825	27pF 2% 63V
2483	4822 122 31727	470pF 2% 63V
2484	4822 122 31727	470pF 2% 63V
2483	4822 122 31727	470pF 2% 63V
2484	4822 122 31727	470pF 2% 63V
2485	4822 122 31965	220pF 2% 63V
2486	4822 122 31965	220pF 2% 63V
2487▲	4822 122 32442	10nF 50V
2488▲	4822 122 32442	10nF 50V
2490	4822 125 50534	20pF 150V
2491	4822 125 50534	20pF 150V
2497	4822 122 32082	4,7pF 5% 50V
2498	4822 122 32082	4,7pF 5% 50V
2499	4822 122 31746	1000pF 2% 63V
2500	4822 122 31746	1000pF 2% 63V
2501	4822 124 40435	10μF 20% 50V
2502	4822 122 33496	100nF 10% 63V
2503	4822 122 33496	100nF 10% 63V
2504	4822 124 40435	10μF 20% 50V
2505	5322 121 42498	680nF 5% 63V
2506	4822 122 31797	22nF 10% 63V
2507	4822 122 31825	27pF 2% 63V
2530	4822 122 32482	22pF 2% 63V
2531▲	4822 122 32442	10nF 50V
2532	4822 122 32482	22pF 2% 63V
2533▲	4822 122 32442	10nF 50V
2534	4822 122 31839	82pF 2% 63V
2535	4822 122 31839	82pF 2% 63V
2536▲	4822 124 40433	47μF 20% 25V
2537	4822 122 31797	22nF 10% 63V
2538	4822 122 32927	220nF +80-20% 50V
2539	4822 122 33496	100nF 10% 63V
2540	4822 122 33496	100nF 10% 63V
2541	4822 122 32927	220nF +80-20% 50V
2542	4822 122 32927	220nF +80-20% 50V
2543	4822 122 33496	100nF 10% 63V
2550	4822 122 32927	220nF +80-20% 50V
2551	4822 122 32927	220nF +80-20% 50V
2552	4822 122 33496	100nF 10% 63V
2553	4822 124 40242	1μF 20% 63V
2554▲	4822 124 40433	47μF 20% 25V
2555	4822 124 41596	22μF 20% 50V
2556	4822 122 31797	22nF 10% 63V
2557	4822 122 31839	82pF 2% 63V
2558	4822 122 31839	82pF 2% 63V
2559	4822 124 40435	10μF 20% 50V
2560	4822 122 32927	220nF +80-20% 50V
2562	4822 122 31774	56pF 2% 63V
2563	4822 122 31774	56pF 2% 63V
2564	4822 122 31774	56pF 2% 63V
2565	4822 122 31797	22nF 10% 63V
2566	4822 122 31797	22nF 10% 63V
2567	4822 122 31797	22nF 10% 63V
2568	4822 122 31797	22nF 10% 63V
2569	4822 122 31797	22nF 10% 63V
2570	4822 122 31797	22nF 10% 63V
2571	4822 124 40242	1μF 20% 63V
2572	5322 121 42661	330nF 5% 63V
2573	4822 122 32927	220nF +80-20% 50V
2574	4822 122 32927	220nF +80-20% 50V
2575	4822 122 32927	220nF +80-20% 50V
2576	4822 124 40435	10μF 20% 50V
2600	4822 122 32927	220nF +80-20% 50V
2602	4822 122 33496	100nF 10% 63V
2603	4822 124 40272	33μF 20% 16V
2604	4822 122 32927	220nF +80-20% 50V
2606	4822 124 40272	33μF 20% 16V
2607	4822 122 31784	4,7nF 10% 50V
2608	4822 121 41854	150nF 5% 63V
2609	4822 124 40214	1000μF 20% 25V
2610	4822 124 40242	1μF 20% 63V
2611	4822 124 22347	47MU 50V
2612	4822 122 33496	100nF 10% 63V
2613	4822 122 33496	100nF 10% 63V
2614	5322 124 40642	47μF 20% 50V
2621	4822 122 32927	220nF +80-20% 50V
2627	4822 124 41509	33μF 20% 35V
2631	4822 122 32927	220nF +80-20% 50V
2637	4822 124 41509	33μF 20% 35V
2638	4822 124 41997	470μF 10V
2639	4822 124 41997	470μF 10V
2660	4822 124 41577	4,7μF 20% 50V
2661	4822 124 41577	4,7μF 20% 50V
2662	4822 122 31784	4,7nF 10% 50V
2663	4822 122 31784	4,7nF 10% 50V
2664	4822 124 40214	1000μF 20% 25V
2666	4822 124 80682	470μF 20% 16V
2667	4822 122 31782	15000pF 10% 50V
2668	4822 124 41576	2,2μF 20% 50V
2670▲	4822 124 40433	47μF 20% 25V
2671	4822 122 32765	820pF 2% 63V
2672▲	4822 124 40433	47μF 20% 25V
2673	4822 122 32765	820pF 2% 63V
2674▲	4822 124 40433	47μF 20% 25V
2675▲	4822 124 41525	100μF 20% 25V
2678	4822 124 40214	1000μF 20% 25V
2679	4822 121 43396	120nF 5% 63V
2680	4822 124 22494	2200MU 25V
2681	4822 121 43396	120nF 5% 63V
2682	4822 124 80683	470μF 20% 25V
2683	4822 121 43396	120nF 5% 63V
2684	4822 124 80683	470μF 20% 25V
2685	4822 124 41577	4,7μF 20% 50V
2686	4822 124 41577	4,7μF 20% 50V
2687	4822 124 80682	470μF 20% 16V
2688	4822 124 41577	4,7μF 20% 50V
2689	4822 124 41577	4,7μF 20% 50V
2690	4822 122 31759	18nF
2691	4822 122 31759	18nF
2702▲	4822 122 32442	10nF 50V
2707	4822 122 33496	100nF 10% 63V
2712	4822 122 31765	100pF 2% 63V
2719	4822 124 41576	2,2μF 20% 50V
2720	4822 124 41596	22μF 20% 50V
2721	4822 124 41596	22μF 20% 50V
2722	4822 122 33496	100nF 10% 63V
2723	4822 121 42937	2.7nF 1% 250V
2724	4822 122 31775	680pF 2% 63V
2725	4822 122 31797	22nF 10% 63V
2728▲	4822 122 32442	10nF 50V
2731	4822 122 32541	27nF 10% 63V
2737	4822 122 33496	100nF 10% 63V
2740	4822 121 51244	330nF 5% 50V
2741	4822 121 51244	330nF 5% 50V
2742▲	4822 124 40196	220μF 20% 16V
2744▲	4822 122 32442	10nF 50V
2750▲	4822 122 32442	10nF 50V
2751	4822 124 41577	4,7μF 20% 50V
2752	4822 121 51565	4,7nF 1% 250V
2753	4822 122 33496	100nF 10% 63V
2754	4822 122 33496	100nF 10% 63V
2755	4822 122 33496	100nF 10% 63V
2756	4822 122 33496	100nF 10% 63V
2757	4822 122 31772	47pF 2% 63V
2758▲	4822 122 32442	10nF 50V
2759	4822 122 31797	22nF 10% 63V
2800▲	4822 124 41525	100μF 20% 25V
2801	4822 124 40435	10μF 20% 50V
2804	4822 124 41577	4,7μF 20% 50V
2814	4822 122 31782	15000pF 10% 50V
2817	4822 122 33496	100nF 10% 63V
2819	4822 122 32542	47nF 10% 63V
2823▲	4822 124 41525	100μF 20% 25V
2826	4822 126 10324	33pF 2% 63V
2827	5322 122 31648	12nF 10% 50V
2828▲	4822 122 32442	10nF 50V
2832	4822 122 31766	120pF 2% 63V
2834▲	4822 122 32442	10nF 50V

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3220▲	4822 051 10103	10k 0 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 20222	2k 2 5% 0,1W
3223	4822 116 52233	10k 5% 0,5W
3224	4822 116 52233	10k 5% 0,5W
3225▲	4822 051 10103	10k 0 2% 0,25W
3226▲	4822 051 10103	10k 0 2% 0,25W
3227	4822 116 52175	100Ω 5% 0,5W
3228	4822 116 52296	6k 8 5% 0,5W
3229▲	4822 116 52283	4k 7 5% 0,5W
3230▲	4822 051 10103	10k 0 2% 0,25W
3231	4822 116 52256	2k 2 5% 0,5W
3232	4822 116 52256	2k 2 5% 0,5W
3233	4822 051 10823	82k 0 2% 0,25W
3234▲	4822 051 10472	4k 7 2% 0,25W
3236▲	4822 051 10103	10k 0 2% 0,25W
3237▲	4822 051 10103	10k 0 2% 0,25W
3238▲	4822 051 10103	10k 0 2% 0,25W
3239	4822 116 52233	10k 5% 0,5W
3240▲	4822 051 10103	10k 0 2% 0,25W
3241▲	4822 051 10472	4k7 2% 0,25W
3242	4822 051 10123	12k 0 2% 0,25W
3243	4822 051 10123	12k 0 2% 0,25W
3244	4822 051 10153	15k 0 2% 0,25W
3246▲	4822 051 10472	4k 7 2% 0,25W
3247▲	4822 051 10103	10k 0 2% 0,25W
3248	4822 051 10104	100k 2% 0,25W
3249	4822 116 52263	2k 7 5% 0,5W
3250	4822 116 52263	2k 7 5% 0,5W
3251	4822 116 52263	2k 7 5% 0,5W
3252	4822 051 10273	27k 0 2% 0,25W
3253	4822 051 10221	220Ω 2% 0,25W
3254▲	4822 051 10472	4k7 2% 0,25W
3256▲	4822 051 10103	10k 0 2% 0,25W
3257▲	4822 051 10103	10k 0 2% 0,25W
3258▲	4822 051 10103	10k 0 2% 0,25W
3259▲	4822 116 52272	330k 5% 0,5W
3260	4822 050 11002	1k 0 1% 0,4W
3261	4822 116 52233	10k 5% 0,5W
3263▲	4822 051 10103	10k 0 2% 0,25W
3264▲	4822 051 10103	10k 0 2% 0,25W
3265▲	4822 051 10103	10k 0 2% 0,25W
3267	4822 116 52175	100Ω 5% 0,5W
3268	4822 116 52175	100Ω 5% 0,5W
3270	4822 116 52263	2k 7 5% 0,5W
3271▲	4822 051 10472	4k7 2% 0,25W
3272	4822 051 10101	100Ω 2% 0,25W
3273▲	4822 051 10472	4k7 2% 0,25W
3274▲	4822 051 10103	10k 0 2% 0,25W
3275▲	4822 051 10103	10k 0 2% 0,25W
3276	4822 116 52175	100Ω 5% 0,5W
3277	4822 116 52175	100Ω 5% 0,5W
3280▲	4822 051 10103	10k 0 2% 0,25W
3282	4822 051 10562	5k6 2% 0,25W
3283	4822 116 52244	15k 5% 0,5W
3300	4822 051 10272	2k7 2% 0,25W
3301▲	4822 051 10103	10k 0 2% 0,25W
3302	4822 051 51201	120Ω 1% 0,125W
3303	4822 051 51201	120Ω 1% 0,125W
3304	4822 051 10223	22k 0 2% 0,25W
3307▲	4822 052 10109	10Ω 5% 0,33W
3318	4822 051 10333	33k 0 2% 0,25W
3318	4822 116 52257	22k 5% 0,5W
3319	4822 116 52234	100k 5% 0,5W
3319	4822 116 52284	47k 5% 0,5W
3319	4822 116 52226	560Ω 5% 0,5W
3319▲	4822 116 52272	330k 5% 0,5W
3319	4822 116 52297	68k 5% 0,5W
3319	4822 116 52252	180k 5% 0,5W
3319	4822 116 52289	5k 6 5% 0,5W
3330▲	4822 116 52269	3k 3 5% 0,5W
3331	4822 051 10221	220Ω 2% 0,25W
3331	4822 051 51201	120Ω 1% 0,125W
3332	4822 051 10563	56k 2% 0,25W
3333	4822 116 52257	22k 5% 0,5W
3334▲	4822 051 10103	10k 0 2% 0,25W
3350	4822 051 10122	1k2 2% 0,25W
3355	4822 051 10102	1k 2% 0,25W
3356	4822 051 10392	3k9 2% 0,25W
3357	4822 051 10331	330Ω 2% 0,25W
3357	4822 051 10681	680Ω 2% 0,25W
3358	4822 116 52228	680Ω 5% 0,5W
3360	4822 051 10683	68k 0 2% 0,25W
3361	4822 100 11163	100k 30%LIN 0,1W
3362▲	4822 052 10108	1Ω 5% 0,33W
3364	4822 051 10339	33Ω 0 2% 0,25W
3364	4822 051 10108	1Ω 0 5% 0,25W
3365	4822 116 52206	120Ω 5% 0,5W
3366	4822 051 20222	2k 2 5% 0,1W
3367	4822 051 10561	560Ω 2% 0,25W
3368	4822 051 10271	270Ω 2% 0,25W
3368	4822 051 10471	470Ω 2% 0,25W
3369▲	4822 051 10103	10k 0 2% 0,25W
3370▲	4822 051 10103	10k 0 2% 0,25W
3400	4822 051 10101	100Ω 2% 0,25W
3401	4822 051 10152	1k5 2% 0,25W
3404▲	4822 051 10103	10k 0 2% 0,25W
3405▲	4822 051 10103	10k 0 2% 0,25W
3406▲	4822 116 52199	68Ω 5% 0,5W
3407▲	4822 051 10103	10k 0 2% 0,25W
3408▲	4822 051 10103	10k 0 2% 0,25W
3409	4822 051 20222	2k 2 5% 0,1W
3410▲	4822 051 10103	10k 0 2% 0,25W
3420	4822 051 10391	390Ω 2% 0,25W
3421	4822 051 10561	560Ω 2% 0,25W
3422	4822 116 52233	10k 5% 0,5W
3423▲	4822 051 10103	10k 0 2% 0,25W
3424▲	4822 051 10103	10k 0 2% 0,25W
3425	4822 051 20222	2k 2 5% 0,1W
3426	4822 116 52231	820Ω 5% 0,5W
3427	4822 051 10221	220Ω 0 2% 0,25W
3427	4822 051 10108	1Ω 0 5% 0,25W
3428	4822 116 52233	10k 5% 0,5W
3429	4822 051 20222	2k 2 5% 0,1W
3430▲	4822 051 10103	10k 0 2% 0,25W
3431	4822 051 10108	1Ω 0 5% 0,25W
3432	4822 051 10102	1k 2% 0,25W
3434	4822 051 10152	1k5 2% 0,25W
3435	4822 051 10274	270k 2% 0,25W
3436	4822 116 52233	10k 5% 0,5W
3437	4822 051 10104	100k 2% 0,25W
3438	4822 051 10272	2k7 2% 0,25W
3439	4822 051 10122	1k2 2% 0,25W
3440	4822 051 10102	1k 2% 0,25W
3441	4822 051 10272	2k7 2% 0,25W
3442	4822 051 10271	270Ω 2% 0,25W
3443	4822 051 10102	1k 2% 0,25W
3444	4822 051 10122	1k2 2% 0,25W
3445▲	4822 051 10103	10k 0 2% 0,25W
3446	4822 051 20222	2k2 5% 0,1W
3447	4822 051 10102	1k 2% 0,25W
3448	4822 051 10272	2k7 2% 0,25W
3449	4822 051 10561	560Ω 2% 0,25W
3460	4822 051 10101	100Ω 2% 0,25W
3461	4822 051 10331	330Ω 2% 0,25W
3462	4822 051 10101	100Ω 2% 0,25W
3466	4822 051 10471	470Ω 2% 0,25W
3467▲	4822 051 10103	10k 0 2% 0,25W
3468▲	4822 051 10103	10k 0 2% 0,25W
3469	4822 051 10562	5k6 2% 0,25W
3471	4822 051 10391	390Ω 2% 0,25W
3472▲	4822 051 10103	10k 0 2% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3474	4822 051 10106	10M 0 5% 0,25W
3475	4822 051 10562	5k6 2% 0,25W
3476	4822 051 10332	3k3 2% 0,25W
3476	4822 051 10153	15k 0 2% 0,25W
3477	4822 051 10562	5k6 2% 0,25W
3478	4822 051 10562	5k6 2% 0,25W
3479	4822 051 10182	1k8 2% 0,25W
3480▲	4822 051 10103	10k 0 2% 0,25W
3481	4822 051 10473	47k 0 2% 0,25W
3482▲	4822 051 10103	10k 0 2% 0,25W
3483▲	4822 052 11278	2Ω7 5% 0,5W
3484	4822 051 10271	270Ω 2% 0,25W
3485	4822 100 11348	1k 30%lin 0,1W
3496▲	4822 051 10103	10k 0 2% 0,25W
3497	4822 051 10332	3k3 2% 0,25W
3498	4822 116 52249	1k 8 5% 0,5W
3499▲	4822 051 10472	4k7 2% 0,25W
3501▲	4822 051 10472	4k7 2% 0,25W
3503	4822 116 52226	560Ω 5% 0,5W
3504	4822 051 10109	10Ω 0 2% 0,25W
3505	4822 051 10109	10Ω 0 2% 0,25W
3506▲	4822 051 10103	10k 0 2% 0,25W
3507	4822 051 10182	1k8 2% 0,25W
3508▲	4822 051 10103	10k 0 2% 0,25W
3510	4822 051 10331	330Ω 2% 0,25W
3511	4822 051 10331	330Ω 2% 0,25W
3530	4822 051 10102	1k 2% 0,25W
3531	4822 051 10102	1k 2% 0,25W
3532▲	4822 116 52217	270Ω 5% 0,5W
3533▲	4822 116 52217	270Ω 5% 0,5W
3534▲	4822 116 52283	4k 7 5% 0,5W
3535▲	4822 052 10109	10Ω 5% 0,33W
3550▲	4822 052 11478	4Ω 7 5% 0,5W
3551	4822 051 10391	390Ω 2% 0,25W
3552▲	4822 116 52217	270Ω 5% 0,5W
3553▲	4822 116 52217	270Ω 5% 0,5W
3554▲	4822 051 10472	4k7 2% 0,25W
3555	4822 051 10681	680Ω 2% 0,25W
3556	4822 051 10153	15k 0 2% 0,25W
3557	4822 051 10152	1k5 2% 0,25W
3559	4822 051 10101	100Ω 2% 0,25W
3560	4822 051 10101	100Ω 2% 0,25W
3561	4822 051 10101	100Ω 2% 0,25W
3562	4822 051 10271	270Ω 2% 0,25W
3563	4822 051 10271	270Ω 2% 0,25W
3564	4822 051 10271	270Ω 2% 0,25W
3565	4822 051 10471	470Ω 2% 0,25W
3566▲	4822 051 10472	4k7 2% 0,25W
3567	4822 051 10108	1Ω 0 5% 0,25W
3568	4822 051 10102	1k 2% 0,25W
3569	4822 116 52224	470Ω 5% 0,5W
3570▲	4822 052 10108	1Ω 0 5% 0,33W
3571	4822 051 10471	470Ω 2% 0,25W
3572▲	4822 052 10478	4Ω 7 5% 0,33W
3573	4822 051 10101	100Ω 2% 0,25W
3600	4822 051 10153	15k 0 2% 0,25W
3601	4822 051 10682	6k8 2% 0,25W
3602	4822 051 10102	1k 2% 0,25W
3603	4822 051 10102	1k 2% 0,25W
3604	4822 051 10102	1k 2% 0,25W
3605	4822 051 10153	15k 0 2% 0,25W
3606	4822 051 10682	6k8 2% 0,25W
3607	4822 051 10102	1k 2% 0,25W
3608	4822 051 10102	1k 2% 0,25W
3609▲	4822 051 10472	4k7 2% 0,25W
3610▲	4822 052 10108	1Ω 0 5% 0,33W
3611	4822 051 10224	220k 2% 0,25W
3612▲	4822 051 10103	10k 0 2% 0,25W
3613▲	4822 051 10103	10k 0 2% 0,25W
3614▲	4822 052 10338	3Ω3 5% 0,33W
3621	4822 051 10153	15k 0 2% 0,25W
3622	4822 051 20222	2k2 5% 0,1W
3623	4822 051 10682	6k8 2% 0,25W
3624	4822 051 10101	100Ω 2% 0,25W
3625	4822 051 10821	820Ω 2% 0,25W
3626	4822 051 10479	47Ω 0 2% 0,25W
3627	4822 051 10479	47Ω 0 2% 0,25W
3631	4822 051 10153	15k 0 2% 0,25W
3632	4822 051 20222	2k2 5% 0,1W
3633	4822 051 10682	6k8 2% 0,25W
3634	4822 051 10101	100Ω 2% 0,25W
3635	4822 051 10821	820Ω 2% 0,25W
3636	4822 051 10479	47Ω 0 2% 0,25W
3637	4822 051 10479	47Ω 0 2% 0,25W
3638	4822 051 10224	220k 2% 0,25W
3639	4822 051 10224	220k 2% 0,25W
3660	4822 051 10683	68k 0 2% 0,25W
3661	4822 051 10683	68k 0 2% 0,25W
3662	4822 051 10124	120k 2% 0,25W
3665▲	4822 051 10103	10k 0 2% 0,25W
3666	4822 051 10563	56k 0 2% 0,25W
3667	4822 116 52264	27k 5% 0,5W
3668	4822 051 10563	56k 0 2% 0,25W
3669	4822 051 10102	1k 2% 0,25W
3670	4822 051 10102	1k 2% 0,25W
3671	4822 051 10823	82k 0 2% 0,25W
3672	4822 051 10473	47k 0 2% 0,25W
3676▲	4822 051 10103	10k 0 2% 0,25W
3677	4822 051 20222	2k 2 5% 0,1W
3679▲	4822 051 10103	10k 0 2% 0,25W
3680	4822 051 20222	2k 2 5% 0,1W
3682	4822 053 11228	2Ω 2 5% 2W
3683	4822 053 11228	2Ω 2 5% 2W
3684	4822 053 11228	2Ω 2 5% 2W
3685▲	4822 052 11478	4Ω 7 5% 0,5W
3686	4822 051 10123	12k 0 2% 0,25W
3690	4822 115 40236	68Ω 10% 7W
3700▲	4822 116 52272	330k 5% 0,5W
3701	4822 116 52233	10k 5% 0,5W
3702	4822 051 10273	27k 0 2% 0,25W
3703	4822 051 10104	100k 2% 0,25W
3704	4822 051 10223	22k 0 2% 0,25W
3705▲	4822 051 10103	10k 0 2% 0,25W
3706▲	4822 051 10103	10k 0 2% 0,25W
3709	4822 051 10474	470k 2% 0,25W
3710	4822 051 10153	15k 0 2% 0,25W
3711	4822 051 10153	15k 0 2% 0,25W
3712	4822 051 10562	5k 6 2% 0,25W
3713	4822 051 10272	2k 7 2% 0,25W
3716	4822 116 52284	47k 5% 0,5W
3719	4822 051 10682	6k8 2% 0,25W
3720	4822 051 10829	82Ω 0 2% 0,25W
3721	4822 051 10102	1k 2% 0,25W
3722	4822 051 10272	2k7 2% 0,25W
3723	4822 100 20166	10k 30%LIN 0,1W
3724	4822 051 10471	470Ω 2% 0,25W
3725	4822 050 11002	1k 1% 0,4W
3726	4822 053 11471	470Ω 5% 2W
3727	4822 051 10181	180Ω 2% 0,25W
3728▲	4822 051 10472	4k7 2% 0,25W
3729▲	4822 051 10472	4k7 2% 0,25W
3730▲	4822 051 10103	10k 0 2% 0,25W
3731	4822 051 20222	2k 2 5% 0,1W
3732	4822 051 10102	1k 2% 0,25W
3733	4822 100 20166	10k 30%LIN 0,1W
3734	4822 051 10104	100k 2% 0,25W
3735	4822 051 10565	5M 6 5% 0,25W
3736	4822 051 10101	100Ω 2% 0,25W
3737	4822 051 10104	100k 2% 0,25W
3739	4822 051 10823	82k 0 2% 0,25W
3740	4822 051 10184	180k 2% 0,25W
3741	4822 101 21154	200k 25%
3742▲	4822 052 10108	1Ω 0 5% 0,33W
3743	4822 051 10273	27k 0 2% 0,25W
3744	4822 051 10102	1k 2% 0,25W
3745▲	4822 051 10103	10k 0 2% 0,25W
3746	4822 051 10272	2k7 2% 0,25W
3750	4822 100 11392	47k 30%lin 0,1W
3751	4822 051 10124	120k 2% 0,25W
3752	4822 051 10122	1k2 2% 0,25W
3753	4822 051 10563	56k 0 2% 0,25W
3754	4822 051 10123	12k 0 2% 0,25W
3755	4822 051 10332	3k3 2% 0,25W
3800▲	4822 052 10478	4Ω7 5% 0,33W
3801	4822 116 52175	100Ω 5% 0,5W

Electrical parts lists

Small signal panel [A],[B],[C],[E],[F].

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3802	4822 051 10153	15k 0 2% 0,25W
3803	4822 051 10181	180Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10273	27k 0 2% 0,25W
3806	4822 051 10681	680Ω 2% 0,25W
3807	4822 051 10391	390Ω 2% 0,25W
3808	4822 051 10478	4Ω 7 5% 0,25W
3809	4822 051 10102	1k 2% 0,25W
3810	4822 051 10332	3k3 2% 0,25W
3811	4822 051 10102	1k 2% 0,25W
3812	4822 051 10152	1k5 2% 0,25W
*3813	4822 051 10102	1k 2% 0,25W
3814	4822 051 10123	12k 2% 0,25W
3815	4822 051 10393	39k 2% 0,25W
3816	4822 051 10181	180Ω 2% 0,25W
*3817	4822 051 10221	220Ω 2% 0,25W
3818	4822 051 10681	680Ω 2% 0,25W
3819	4822 051 10101	100Ω 2% 0,25W
3821	4822 051 10471	470Ω 2% 0,25W
3822	4822 051 10681	680Ω 2% 0,25W
3823	4822 051 10182	1k8 2% 0,25W
3824	4822 051 10561	560Ω 2% 0,25W
3825	4822 051 10561	560Ω 2% 0,25W
3826	4822 051 10152	1k5 2% 0,25W
3827	4822 051 10391	390Ω 2% 0,25W
3829▲	4822 051 10472	4k7 2% 0,25W
3830▲	4822 051 10103	10k 0 2% 0,25W
3831	4822 051 10122	1k 2 2% 0,25W
3832	4822 051 10681	680Ω 2% 0,25W
3833	4822 051 10151	150Ω 2% 0,25W
3834▲	4822 051 10103	10k 0 2% 0,25W
3835	4822 051 10123	12k 0 2% 0,25W
3836	4822 051 10331	330Ω 2% 0,25W

Jumper

4221	4822 051 10008	0Ω 0 5% 0,25W
4227	4822 051 10008	0Ω 0 5% 0,25W
4245	4822 051 10008	0Ω 0 5% 0,25W
4260	4822 051 10008	0Ω 0 5% 0,25W
4274	4822 051 10008	0Ω 0 5% 0,25W
4309	4822 051 10008	0Ω 0 5% 0,25W
4310	4822 051 10008	0Ω 0 5% 0,25W
4311	4822 051 10008	0Ω 0 5% 0,25W
4312	4822 051 10008	0Ω 0 5% 0,25W
4313	4822 051 10008	0Ω 0 5% 0,25W
4314	4822 051 10008	0Ω 0 5% 0,25W
4333	4822 051 10008	0Ω 0 5% 0,25W
4372	4822 051 10008	0Ω 0 5% 0,25W
4386	4822 051 10008	0Ω 0 5% 0,25W
4400	4822 051 10008	0Ω 0 5% 0,25W
4401	4822 051 10008	0Ω 0 5% 0,25W
4420	4822 051 10008	0Ω 0 5% 0,25W
4421	4822 051 10008	0Ω 0 5% 0,25W
4422	4822 051 10008	0Ω 0 5% 0,25W
4460	4822 051 10008	0Ω 0 5% 0,25W
4462	4822 051 10008	0Ω 0 5% 0,25W
4463	4822 051 10008	0Ω 0 5% 0,25W
4464	4822 051 10008	0Ω 0 5% 0,25W
4465	4822 051 10008	0Ω 0 5% 0,25W
4474	4822 051 10008	0Ω 0 5% 0,25W
4478	4822 051 10008	0Ω 0 5% 0,25W
4566	4822 051 10008	0Ω 0 5% 0,25W
4594	4822 051 10008	0Ω 0 5% 0,25W
4631	4822 051 10008	0Ω 0 5% 0,25W
4702	4822 051 10008	0Ω 0 5% 0,25W
4717	4822 051 10008	0Ω 0 5% 0,25W
4718	4822 051 10008	0Ω 0 5% 0,25W
4727	4822 051 10008	0Ω 0 5% 0,25W
4741	4822 051 10008	0Ω 0 5% 0,25W
4744	4822 051 10008	0Ω 0 5% 0,25W
4752	4822 051 10008	0Ω 0 5% 0,25W

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5221	4822 157 60499	33µH
5333	4822 156 11172	0,43µH
5334	4822 157 53343	0,82µH
5356	4822 156 11171	0,35µH
5357	4822 157 70335	5,6µH
5358	4822 156 11173	0,24µH
5366	4822 157 62767	8,2µH
5381	4822 157 70759	O,34µH

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5389	4822 157 60171	65R AT 10mH z
5420	4822 157 62995	15,00 µH 10%
5421	4822 157 62852	12µH
5422	4822 157 62852	12µH
5423	4822 157 62823	7KM2,52
5438	4822 157 62804	22µH
5460	4822 157 62822	7KM7,96
5462	4822 157 62824	7KM7,96
5823▲	4822 157 52286	22µH 10%
5826▲	4822 157 52286	22µH 10%

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6221	4822 130 80446	LL4148
6222▲	4822 130 30621	1N4148
6223	4822 130 80954	LLZ-C5V6
6233	4822 130 80446	LL4148
6266	4822 130 80446	LL4148
6270	4822 130 80446	LL4148
6271	4822 130 80446	LL4148
6300	4822 130 82037	HZT33
6302▲	4822 130 30621	1N4148
6304▲	4822 130 30621	1N4148
6305▲	4822 130 30621	1N4148
6306▲	4822 130 30621	1N4148
6333	4822 130 80888	BA682
6400	4822 130 82583	LLZ-C9V1
6460	4822 130 80446	LL4148
6461	4822 130 80446	LL4148
6462	4822 130 80446	LL4148
6463	4822 130 80446	LL4148
6464	4822 130 80884	LLZ-C5V1
6465	4822 130 80446	LL4148
6530	4822 130 80446	LL4148
6550	4822 130 82348	LLZ-F9V1
6551▲	4822 130 30621	1N4148
6552	4822 130 80883	LLZ-C4V7
6553	4822 130 80446	LL4148
6554	4822 130 81223	LLZ-C2V4
6555▲	4822 130 30621	1N4148
6556▲	4822 130 30621	1N4148
6557▲	4822 130 30621	1N4148
6558▲	4822 130 30621	1N4148
6621	4822 130 80446	LL4148
6622	4822 130 80446	LL4148
6631	4822 130 80446	LL4148
6632	4822 130 80446	LL4148
6660▲	4822 130 30621	1N4148
6661▲	4822 130 30621	1N4148
6662▲	4822 130 30621	1N4148
6663▲	4822 130 30621	1N4148
6664▲	4822 130 30621	1N4148
6665▲	4822 130 30621	1N4148
6666▲	4822 130 30621	1N4148
6667▲	4822 130 30621	1N4148
6725	4822 130 81223	LLZ-C2V4
6726	4822 130 31966	BZV85-C12
6742	4822 130 80446	LL4148
6801	4822 130 82583	LLZ-C9V1
6828▲	4822 130 30621	1N4148
6829▲	4822 130 30621	1N4148
6830	4822 130 80446	LL4148
6831	4822 130 80446	LL4148
6834	4822 130 80446	LL4148
6835	4822 130 80446	LL4148

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7220	4822 130 61207	BC848
7221	4822 130 61207	BC848
7222	4822 209 32592	P87C054BBPNB
7223	4822 209 52316	ST24C04B
7225	4822 130 61207	BC848
7226	4822 130 61207	BC848
7227	5322 130 42012	BC858
7233	4822 130 61207	BC848
7270	5322 130 42012	BC858
7271	4822 130 61207	BC848
7357	4822 209 72746	TDA8341/N6
7358	5322 130 42012	BC858
7367	4822 130 61207	BC848
7369	5322 130 42012	BC858
7370	5322 130 42012	BC858

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7380	4822 209 81878	TDA2545A/V4
7400	5322 130 42012	BC858
7401	4822 130 61207	BC848
7402	5322 209 10576	HEF4053BP
7403	4822 130 61207	BC848
7404	4822 130 61207	BC848
7420	5322 130 42012	BC858
7421	4822 130 61207	BC848
7422	5322 130 42136	BC848C
7423	4822 130 61207	BC848
7424	4822 209 30711	CX20125
7425	5322 130 42012	BC858
7426	4822 130 61207	BC848
7427	5322 130 42012	BC858
7434	5322 130 42012	BC858
7435	4822 130 61207	BC848
7438	4822 130 61207	BC848
7460	4822 130 61207	BC848
7463	4822 130 61207	BC848
7464	4822 130 61207	BC848
7465	4822 130 61207	BC848
7466	4822 209 32588	TDA4651/V1
7467	4822 209 71398	TDA4570/V7
7468	4822 130 61207	BC848
7469	4822 130 61207	BC848
7470	4822 130 61207	BC848
7471	4822 130 61207	BC848
7472	4822 209 31714	TDA4661/V2
7473	4822 130 42133	BC817
7530	4822 209 32593	TDA4671/V1
7550	4822 130 60775	2SD1266P
7551	4822 209 32271	TDA4681
7552	5322 130 42136	BC848C
7553	5322 130 42136	BC848C
7554	4822 209 73852	PMBT2369
7600	4822 130 61207	BC848
7601	4822 130 61207	BC848
7610	4822 209 61758	TDA1013B/N1
7622	4822 130 61207	BC848
7625	4822 130 61207	BC848
7626	5322 130 42012	BC858
7632	4822 130 61207	BC848
7635	4822 130 61207	BC848
7636	5322 130 42012	BC858
7660	4822 209 32591	LA6458D
7670	4822 209 32589	TDA8218AH
7701	4822 130 61207	BC848
7704	5322 130 42012	BC858
7705	4822 209 63423	TDA2579B/N2
7705	4822 209 32272	TDA2579C/N1
7706	4822 130 61207	BC848
7724	5322 130 42012	BC858
7725	4822 130 61207	BC848
7750	4822 209 63299	TDA2595/V9
7806	5322 130 42012	BC858
7807	4822 130 61207	BC848
7811	5322 130 42012	BC858
7814	5322 130 42012	BC858
7815	4822 130 61207	BC848
7822	4822 130 61207	BC848
7828	4822 209 73852	PMBT2369
7830	4822 130 61207	BC848
7836	4822 130 61207	BC848

Side front conn. panel [G1],[G2].

1600	4822 212 30717	SIDE FRONT PANEL G8
	4822 265 41338	10P MALE

Various

1306	4822 242 81448	TPS3,58MJ

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2301	4822 122 32927	220nF +80-20% 50V
2307	4822 122 32927	220nF +80-20% 50V

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2309	4822 122 32927	220nF +80-20% 50V
2311	4822 122 32927	220nF +80-20% 50V
2312	4822 122 32927	220nF +80-20% 50V
2313	5322 122 31842	330pF 2% 63V
2316	4822 122 32927	220nF +80-20% 50V
2317	4822 122 32927	220nF +80-20% 50V
2318	5322 122 31842	330pF 2% 63V
2391▲	4822 124 40433	47µF 20% 25V
2392	4822 122 32927	220nF +80-20% 50V
2393	4822 122 33496	100nF 10% 63V

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3301	4822 051 10759	75Ω 2% 0,25W
3302	4822 051 10759	75Ω 2% 0,25W
3303	4822 051 10759	75Ω 2% 0,25W
3304	4822 051 10681	680Ω 2% 0,25W
3305	4822 051 10331	330Ω 2% 0,25W
3306	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10102	1k 2% 0,25W
3309	4822 051 10152	1k5 2% 0,25W
3310▲	4822 051 10103	10k 2% 0,25W
3311	4822 051 10104	100k 2% 0,25W
3312	4822 051 10102	1k 2% 0,25W
3316	4822 051 10104	100k 2% 0,25W
3317	4822 051 10102	1k 2% 0,25W
3391	4822 051 10152	1k5 2% 0,25W
3392	4822 051 10223	22k 2% 0,25W
3393	4822 051 10153	15k 2% 0,25W

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6301	4822 130 81512	LLZ-C6V2
6302	4822 130 81512	LLZ-C6V2
6303	4822 130 81512	LLZ-C6V2
6305▲	4822 130 30621	1N4148
6306▲	4822 130 30621	1N4148
6311	4822 130 81512	LLZ-C6V2
6316	4822 130 81512	LLZ-C6V2
6317	4822 130 34233	BZX79-C5V1

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7306	4822 130 61207	BC848
7309	5322 130 42012	BC858
7391	4822 130 61207	BC848
1615	4822 212 30718	LED PANEL G8
	4822 265 40752	8P MALE
	4822 255 70291	LED HOLDER
	4822 432 93153	LED COVER

Various

1010	4822 212 30842	TFMS 5360 ANS

2010▲	4822 124 40196	220µF 20% 16V

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3010	4822 051 10102	1k 2% 0,25W
3011	4822 051 10102	1k 2% 0,25W
3012	4822 051 10271	270Ω 2% 0,25W
3013	4822 051 10102	1k 2% 0,25W
3015	4822 051 10221	220Ω 2% 0,25W
3016	4822 051 10471	470Ω 2% 0,25W

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6010	4822 130 83443	TLSG5101
6011	4822 130 83443	TLSG5101
6012	4822 130 80883	LLZ-C4V7
6013	4822 130 80446	LL4148
6014	4822 130 83442	TLSV5100

LED panel [E].

Various

1615	4822 212 30718	LED PANEL G8
	4822 265 40752	8P MALE
	4822 255 70291	LED HOLDER
	4822 432 93153	LED COVER
1010	4822 212 30842	TFMS 5360 ANS

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2010▲	4822 124 40196	220µF 20% 16V

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3010	4822 051 10102	1k 2% 0,25W
3011	4822 051 10102	1k 2% 0,25W
3012	4822 051 10271	270Ω 2% 0,25W
3013	4822 051 10102	1k 2% 0,25W
3015	4822 051 10221	220Ω 2% 0,25W
3016	4822 051 10471	470Ω 2% 0,25W

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6010	4822 130 83443	TLSG5101
6011	4822 130 83443	TLSG5101
6012	4822 130 80883	LLZ-C4V7
6013	4822 130 80446	LL4148
6014	4822 130 83442	TLSV5100

CRT panel [E].

Various

1620	4822 212 30721	CRT PANEL 29" G8
1620	4822 212 30847	CRT PANEL 25" G8
	4822 267 51206	CRT SOCKET
	4822 265 40822	7P MALE
	4822 265 30351	5P MALE
▲	4822 265 20366	1P MALE

2102	4822 122 31825	27pF 2% 63V
2103	4822 122 31772	47pF 2% 63V
2105	4822 122 32142	270pF 2% 63V
2116	4822 121 42021	15nF 10% 400V
2122	4822 122 31825	27pF 2% 63V
2123	4822 122 31772	47pF 2% 63V
2125	4822 122 32142	270pF 2% 63V
2136	4822 121 42021	15nF 10% 400V
2142	4822 122 31825	27pF 2% 63V
2143	4822 122 31772	47pF 2% 63V
2145	4822 122 32142	270pF 2% 63V
2156	4822 121 42021	15nF 10% 400V
2160	4822 124 40435	10µF 20% 50V
2161▲	4822 124 40433	47µF 20% 25V
2180	4822 122 32142	270pF 2% 63V
2181	4822 122 32482	22pF 2% 63V
2190	4822 124 80677	4,7µF 20% 400V
2191	4822 121 41926	33nF 5% 630V
2199▲	4822 124 40433	47µF 20% 25V

3100	4822 051 10333	33k 2% 0,25W
3100	4822 116 52257	22k 5% 0,5W
3101	4822 051 10221	220Ω 2% 0,25W
3102	4822 051 10391	390Ω 2% 0,25W
3103	4822 051 10332	3k3 2% 0,25W
3105	4822 051 10271	270Ω 2% 0,25W
3106	4822 051 10821	820Ω 2% 0,25W
3107	4822 051 10123	12k 2% 0,25W
3108▲	4822 053 11123	12k 5% 2W
3109▲	4822 052 10471	470Ω 5% 0,33W
3110▲	4822 052 10151	150Ω 5% 0,33W
3111	4822 050 21502	1k5 1% 0,6W
3112	4822 051 10331	330Ω 2% 0,25W
3113	4822 051 10331	330Ω 2% 0,25W
3114	4822 051 10331	330Ω 2% 0,25W
3116▲	4822 052 10181	180Ω 5% 0,33W
3121▲	4822 116 52215	220Ω 5% 0,5W
3122	4822 051 10391	390Ω 2% 0,25W
3123	4822 051 10332	3k3 2% 0,25W
3125	4822 051 10271	270Ω 2% 0,25W
3126	4822 051 10821	820Ω 2% 0,25W
3127	4822 051 10123	12k 2% 0,25W

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3128▲	4822 053 11123	12k 5% 2W
3129▲	4822 052 10471	470Ω 5% 0,33W
3130▲	4822 052 10151	150Ω 5% 0,33W
3131	4822 050 21502	1k5 1% 0,6W
3136▲	4822 052 10181	180Ω 5% 0,33W
3141	4822 051 10221	220Ω 2% 0,25W
3142	4822 051 10391	390Ω 2% 0,25W
3143	4822 051 10332	3k3 2% 0,25W
3145	4822 051 10271	270Ω 2% 0,25W
3146	4822 051 10821	820Ω 2% 0,25W
3147	4822 051 10123	12k 2% 0,25W
3148▲	4822 053 11123	12k 5% 2W
3149▲	4822 052 10471	470Ω 5% 0,33W
3150▲	4822 052 10151	150Ω 5% 0,33W
3151	4822 050 21502	1k5 1% 0,6W
3156▲	4822 052 10181	180Ω 5% 0,33W
3160	4822 051 10102	1k 2% 0,25W
3161▲	4822 051 10103	10k 2% 0,25W
3162	4822 051 10182	1k8 2% 0,25W
3163▲	4822 051 10472	4k7 2% 0,25W
3164	4822 051 10153	15k 2% 0,25W
3175	4822 051 10823	82k 2% 0,25W
3180	4822 051 10333	33k 2% 0,25W
3181▲	4822 051 10103	10k 2% 0,25W
3182	4822 116 52304	82k 5% 0,5W
3183▲	4822 051 10103	10k 2% 0,25W
3184	4822 051 10223	22k 2% 0,25W
3190	4822 116 52285	470k 5% 0,5W
3191	4822 050 21502	1k5 1% 0,6W
3192	4822 050 21502	1k5 1% 0,6W
3193▲	4822 052 10158	1Ω5 5% 0,33W
3199▲	4822 052 10109	10Ω 5% 0,33W

Jumper

4145	4822 051 10008	0Ω 5% 0,25W
4190	4822 051 10008	0Ω 5% 0,25W

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5110▲	4822 157 52286	22µH 10%
5111	4822 157 63316	56µH
5115	4822 157 53001	27µH
5130▲	4822 157 52286	22µH 10%
5131	4822 157 63316	56µH
5135	4822 157 53001	27µH
5150▲	4822 157 52286	22µH 10%
5151	4822 157 63316	56µH
5155	4822 157 53001	27µH
5175	4822 157 60122	4µH 7
5190	4822 157 60122	4µH 7
5193	4822 158 10549	12 µH
5193	4822 157 62577	22µH
5194	4822 157 53066	15µH 10%

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6115	4822 130 80877	BAV103
6116	4822 130 80877	BAV103
6135	4822 130 80877	BAV103
6136	4822 130 80877	BAV103
6155	4822 130 80877	BAV103
6156	4822 130 80877	BAV103
6161	4822 130 82192	LLZ-C8V2
6170	4822 130 81512	LLZ-C6V2
6180	4822 130 82345	LLZ-C22
6192▲	4822 130 32896	BYD33M

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7110	4822 130 61207	BC848
7111	4822 130 60143	BF583
7115	4822 130 41646	BF423
7116	4822 130 41782	BF422
7130	4822 130 61207	BC848
7131	4822 130 60143	BF583
7135	4822 130 41646	BF423
7136	4822 130 41782	BF422
7150	4822 130 61207	BC848
7151	4822 130 60143	BF583
7155	4822 130 41646	BF423
7156	4822 130 41782	BF422
7160	5322 130 42012	BC858
7161	4822 130 61207	BC848
7180	4822 130 60373	BC856B

Side rear conn. panel [G1],[G2].

Various

1625	4822 212 30724	SIDE REAR CONN.29"G8
1625	4822 212 30738	SIDE REAR CONN.25"G8
	4822 290 61184	4P MALE
	4822 265 40752	8P MALE
	4822 265 41338	10P MALE
	4822 265 31116	5P MALE
	4822 265 31087	3P MALE
1226	4822 242 81448	TPS3,58MJ
1246	4822 242 81448	TPS3,58MJ

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2221	4822 122 32927	220nF +80-20% 50V
2226	4822 122 32927	220nF +80-20% 50V
2229	4822 122 32927	220nF +80-20% 50V
2231	4822 122 32927	220nF +80-20% 50V
2232	4822 122 32927	220nF +80-20% 50V
2233	5322 122 31842	330pF 2% 63V
2236	4822 122 32927	220nF +80-20% 50V
2237	4822 122 32927	220nF +80-20% 50V
2238	5322 122 31842	330pF 2% 63V
2241	4822 122 32927	220nF +80-20% 50V
2246	4822 122 32927	220nF +80-20% 50V
2249	4822 122 32927	220nF +80-20% 50V
2251	4822 122 32927	220nF +80-20% 50V
2252	4822 122 32927	220nF +80-20% 50V
2253	5322 122 31842	330pF 2% 63V
2256	4822 122 32927	220nF +80-20% 50V
2257	4822 122 32927	220nF +80-20% 50V
2258	5322 122 31842	330pF 2% 63V
2285▲	4822 122 32442	10nF 50V
2288▲	4822 122 32442	10nF 50V
2297	4822 122 32927	220nF +80-20% 50V
2298▲	4822 124 40433	47µF 20% 25V
2299	4822 122 33496	100nF 10% 63V

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3221	4822 051 10759	75Ω 2% 0,25W
3222	4822 051 10759	75Ω 2% 0,25W
3223	4822 051 10759	75Ω 2% 0,25W
3224	4822 051 10681	680Ω 2% 0,25W
3225	4822 051 10331	330Ω 2% 0,25W
3226	4822 051 10102	1k 2% 0,25W
3227	4822 051 10474	470k 2% 0,25W
3228	4822 051 10102	1k 2% 0,25W
3229	4822 051 10152	1k5 2% 0,25W
3230▲	4822 051 10103	10k 2% 0,25W
3231	4822 051 10104	100k 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3236	4822 051 10104	100k 2% 0,25W
3237	4822 051 10102	1k 2% 0,25W
3241	4822 051 10759	75Ω 2% 0,25W
3242	4822 051 10759	75Ω 2% 0,25W
3243	4822 051 10759	75Ω 2% 0,25W
3244	4822 051 10681	680Ω 2% 0,25W
3245	4822 051 10331	330Ω 2% 0,25W
3246	4822 051 10102	1k 2% 0,25W
3247	4822 051 10474	470k 2% 0,25W
3248	4822 051 10102	1k 2% 0,25W
3249	4822 116 52243	1k 5 5% 0,5W
3250▲	4822 051 10103	10k 2% 0,25W
3251	4822 051 10104	100k 2% 0,25W
3252	4822 051 10102	1k 2% 0,25W
3256	4822 051 10104	100k 2% 0,25W
3257	4822 051 10102	1k 2% 0,25W
3281	4822 051 10689	68Ω 2% 0,25W
3282	4822 051 10689	68Ω 2% 0,25W
3283	4822 051 10689	68Ω 2% 0,25W
3284	4822 051 10151	150Ω 2% 0,25W

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3286	4822 051 10151	150Ω 2% 0,25W
3287	4822 051 10151	150Ω 2% 0,25W
3289	4822 051 10151	150Ω 2% 0,25W
3297	4822 051 10152	1k5 2% 0,25W
3298	4822 116 52257	22k 5% 0,5W
3299	4822 051 10153	15k 2% 0,25W

Jumper

4223	4822 051 10008	0Ω 5% 0,25W
4230	4822 051 10008	0Ω 5% 0,25W
4250	4822 051 10008	0Ω 5% 0,25W
4282	4822 051 10008	0Ω 5% 0,25W

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6221	4822 130 81512	LLZ-C6V2
6222	4822 130 81512	LLZ-C6V2
6223	4822 130 81512	LLZ-C6V2
6224▲	4822 130 30621	1N4148
6225▲	4822 130 30621	1N4148
6231	4822 130 81512	LLZ-C6V2
6236	4822 130 81512	LLZ-C6V2
6237	4822 130 34233	BZX79-C5V1
6241	4822 130 81512	LLZ-C6V2
6242	4822 130 81512	LLZ-C6V2
6243	4822 130 81512	LLZ-C6V2
6244▲	4822 130 30621	1N4148
6245▲	4822 130 30621	1N4148
6251	4822 130 81512	LLZ-C6V2
6256	4822 130 81512	LLZ-C6V2
6257	4822 130 80884	LLZ-C5V1
6264▲	4822 130 30621	1N4148
6265▲	4822 130 30621	1N4148
6277	4822 130 34233	BZX79-C5V1
6281	4822 130 81512	LLZ-C6V2
6282	4822 130 81512	LLZ-C6V2
6283	4822 130 81512	LLZ-C6V2
6284	4822 130 81512	LLZ-C6V2
6285▲	4822 130 30621	1N4148
6286▲	4822 130 30621	1N4148
6287	4822 130 81512	LLZ-C6V2
6288	4822 130 34233	BZX79-C5V1
6295▲	4822 130 30621	1N4148
6296▲	4822 130 30621	1N4148
6298	4822 130 34233	BZX79-C5V1

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7226	4822 130 61207	BC848
7229	5322 130 42012	BC858
7246	4822 130 61207	BC848
7249	5322 130 42012	BC858
7297	4822 130 61207	BC848

Interface panel [G1],[G2].

Various

1630	4822 212 30723	INTERFACE PANEL G8
	4822 265 30351	5P MALE
▲	4822 265 40469	6P FEMALE GOLD PLAT
	4822 267 50861	8P MALE
	4822 265 40471	8P FEMALE GOLD PLAT
	4822 265 40442	10P MALE

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2401	4822 122 32927	220nF +80-20% 50V
2402	4822 122 32927	220nF +80-20% 50V
2403	4822 122 32927	220nF +80-20% 50V
2405	4822 122 32927	220nF +80-20% 50V
2406	4822 122 32927	220nF +80-20% 50V
2407	4822 122 32927	220nF +80-20% 50V
2408	4822 122 32927	220nF +80-20% 50V

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2409	4822 122 32927	220nF + 50V
2410	4822 122 32927	220nF + 50V
2412	4822 122 32927	220nF + 50V
2413	4822 122 32927	220nF + 50V
2414	4822 122 32927	220nF + 50V
2416	4822 122 32927	220nF + 50V
2417	4822 122 32927	220nF + 50V
2419	4822 122 32927	220nF + 50V
2420	4822 122 32079	3,3pF 5% 50V
2432	4822 122 32482	22pF 2%
2433	4822 122 32927	220nF + 50V
2440	4822 122 32079	3,3pF 5%
2442	4822 122 32927	220nF + 50V
2450	4822 122 32079	3,3pF 5%
2465	4822 122 31839	82pF 2%
2466	4822 122 31839	82pF 2%
2467	4822 122 31839	82pF 2%
2468	4822 122 31839	82pF 2%
2470	4822 122 31965	220pF 2
2474	4822 122 32927	220nF + 50V
2475	4822 122 32927	220nF + 50V
2491	4822 124 40849	330µF 2
2493	4822 124 41561	22µF 20
2501▲	4822 122 32442	10nF 50
2503▲	4822 122 32442	10nF 50
2504▲	4822 122 32442	10nF 50
2506▲	4822 122 32442	10nF 50
2601	4822 124 40242	1µF 20%
2603	4822 124 41577	4,7µF 20
2605	4822 124 40242	1µF 20%
2611	4822 124 40242	1µF 20%
2613	4822 124 41577	4,7µF 20
2615	4822 124 40242	1µF 20%
2618▲	4822 122 32442	10nF 50
2621	4822 124 40195	150µF 2
2622	4822 122 31839	82pF 2%
2623	4822 122 31839	82pF 2%
2624	5322 122 31647	1nF 10%
2625	5322 122 31647	1nF 10%
2626	4822 122 31916	5,6nF 10
2627	4822 122 31916	5,6nF 10
2628	4822 122 31782	15000pF
2629	4822 122 31782	15000pF
2630	4822 122 31981	33nF +-
2631	4822 122 31981	33nF +-
2632	4822 121 51252	470nF 5
2633	4822 121 51252	470nF 5
2634	4822 121 51252	470nF 5
2635	4822 121 51252	470nF 5
2636	4822 122 33496	100nF 1
2637	4822 124 40849	330µF 2
2671	4822 122 31839	82pF 2%
2672	4822 122 31839	82pF 2%
2678	4822 122 33496	100nF 1

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3402	4822 051 10102	1k 2% 0,
3403	4822 051 10102	1k 2% 0,
3409	4822 050 11002	1k 1% 0,
3410	4822 051 10102	1k 2% 0,
3415	4822 051 10102	1k 2% 0,
3416	4822 051 10102	1k 2% 0,
3420	4822 051 10101	100Ω 2%
3421▲	4822 116 52283	4k 7 5%
3422▲	4822 051 10472	4k7 2%
3423	4822 051 10471	470Ω 2%
3424	4822 116 52226	560Ω 5%
3426	4822 051 10561	560Ω 2%
3427▲	4822 116 52283	4k 7 5%
3428	4822 051 10392	3k9 2%
3429	4822 051 10102	1k 2% 0,

LED panel [E].

Various

1615	4822 212 30718	LED PANEL G8
	4822 265 40752	8P MALE
	4822 255 70291	LED HOLDER
	4822 432 93153	LED COVER
1010	4822 212 30842	TFMS 5360 ANS

⊣⊢

2010▲	4822 124 40196	220µF 20% 16V

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3010	4822 051 10102	1k 2% 0,25W
3011	4822 051 10102	1k 2% 0,25W
3012	4822 051 10271	270Ω 2% 0,25W
3013	4822 051 10102	1k 2% 0,25W
3015	4822 051 10221	220Ω 2% 0,25W
3016	4822 051 10471	470Ω 2% 0,25W

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6010	4822 130 83443	TLSG5101
6011	4822 130 83443	TLSG5101
6012	4822 130 80883	LLZ-C4V7
6013	4822 130 80446	LL4148
6014	4822 130 83442	TLSV5100

CRT panel [E].

Various

1620	4822 212 30721	CRT PANEL 29" G8
1620	4822 212 30847	CRT PANEL 25" G8
	4822 267 51206	CRT SOCKET
	4822 265 40822	7P MALE
	4822 265 30351	5P MALE
▲	4822 265 20366	1P MALE

2102	4822 122 31825	27pF 2% 63V
2103	4822 122 31772	47pF 2% 63V
2105	4822 122 32142	270pF 2% 63V
2116	4822 121 42021	15nF 10% 400V
2122	4822 122 31825	27pF 2% 63V
2123	4822 122 31772	47pF 2% 63V
2125	4822 122 32142	270pF 2% 63V
2136	4822 121 42021	15nF 10% 400V
2142	4822 122 31825	27pF 2% 63V
2143	4822 122 31772	47pF 2% 63V
2145	4822 122 32142	270pF 2% 63V
2156	4822 121 42021	15nF 10% 400V
2160	4822 124 40435	10µF 20% 50V
2161▲	4822 124 40433	47µF 20% 25V
2180	4822 122 32142	270pF 2% 63V
2181	4822 122 32482	22pF 2% 63V
2190	4822 124 80677	4,7µF 20% 400V
2191	4822 121 41926	33nF 5% 630V
2199▲	4822 124 40433	47µF 20% 25V

3100	4822 051 10333	33k 2% 0,25W
3100	4822 116 52257	22k 5% 0,5W
3101	4822 051 10221	220Ω 2% 0,25W
3102	4822 051 10391	390Ω 2% 0,25W
3103	4822 051 10332	3k3 2% 0,25W
3105	4822 051 10271	270Ω 2% 0,25W
3106	4822 051 10821	820Ω 2% 0,25W
3107	4822 051 10123	12k 2% 0,25W
3108▲	4822 053 11123	12k 5% 2W
3109▲	4822 052 10471	470Ω 5% 0,33W
3110▲	4822 052 10151	150Ω 5% 0,33W
3111	4822 050 21502	1k5 1% 0,6W
3112	4822 051 10331	330Ω 2% 0,25W
3113	4822 051 10331	330Ω 2% 0,25W
3114	4822 051 10331	330Ω 2% 0,25W
3116▲	4822 052 10181	180Ω 5% 0,33W
3121▲	4822 116 52215	220Ω 5% 0,5W
3122	4822 051 10391	390Ω 2% 0,25W
3123	4822 051 10332	3k3 2% 0,25W
3125	4822 051 10271	270Ω 2% 0,25W
3126	4822 051 10821	820Ω 2% 0,25W
3127	4822 051 10123	12k 2% 0,25W

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3128▲	4822 053 11123	12k 5% 2W
3129▲	4822 052 10471	470Ω 5% 0,33W
3130▲	4822 052 10151	150Ω 5% 0,33W
3131	4822 050 21502	1k5 1% 0,6W
3136▲	4822 052 10181	180Ω 5% 0,33W
3141	4822 051 10221	220Ω 2% 0,25W
3142	4822 051 10391	390Ω 2% 0,25W
3143	4822 051 10332	3k3 2% 0,25W
3145	4822 051 10271	270Ω 2% 0,25W
3146	4822 051 10821	820Ω 2% 0,25W
3147	4822 051 10123	12k 2% 0,25W
3148▲	4822 053 11123	12k 5% 2W
3149▲	4822 052 10471	470Ω 5% 0,33W
3150▲	4822 052 10151	150Ω 5% 0,33W
3151	4822 050 21502	1k5 1% 0,6W
3156▲	4822 052 10181	180Ω 5% 0,33W
3160	4822 051 10102	1k 2% 0,25W
3161▲	4822 051 10103	10k 2% 0,25W
3162	4822 051 10182	1k8 2% 0,25W
3163▲	4822 051 10472	4k7 2% 0,25W
3164	4822 051 10153	15k 2% 0,25W
3175	4822 051 10823	82k 2% 0,25W
3180	4822 051 10333	33k 2% 0,25W
3181▲	4822 051 10103	10k 2% 0,25W
3182	4822 116 52304	82k 5% 0,5W
3183▲	4822 051 10103	10k 2% 0,25W
3184	4822 051 10223	22k 2% 0,25W
3190	4822 116 52285	470k 5% 0,5W
3191	4822 050 21502	1k5 1% 0,6W
3192	4822 050 21502	1k5 1% 0,6W
3193▲	4822 052 10158	1Ω5 5% 0,33W
3199▲	4822 052 10109	10Ω 5% 0,33W

Jumper

4145	4822 051 10008	0Ω 5% 0,25W
4190	4822 051 10008	0Ω 5% 0,25W

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5110▲	4822 157 52286	22µH 10%
5111	4822 157 63316	56µH
5115	4822 157 53001	27µH
5130▲	4822 157 52286	22µH 10%
5131	4822 157 63316	56µH
5135	4822 157 53001	27µH
5150▲	4822 157 52286	22µH 10%
5151	4822 157 63316	56µH
5155	4822 157 53001	27µH
5175	4822 157 60122	4µH 7
5190	4822 157 60122	4µH 7
5193	4822 158 10549	12 µH
5193	4822 157 62577	22µH
5194	4822 157 53066	15µH 10%

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6115	4822 130 80877	BAV103
6116	4822 130 80877	BAV103
6135	4822 130 80877	BAV103
6136	4822 130 80877	BAV103
6155	4822 130 80877	BAV103
6156	4822 130 80877	BAV103
6161	4822 130 82192	LLZ-C8V2
6170	4822 130 81512	LLZ-C6V2
6180	4822 130 82345	LLZ-C22
6192▲	4822 130 32896	BYD33M

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7110	4822 130 61207	BC848
7111	4822 130 60143	BF583
7115	4822 130 41646	BF423
7116	4822 130 41782	BF422
7130	4822 130 61207	BC848
7131	4822 130 60143	BF583
7135	4822 130 41646	BF423
7136	4822 130 41782	BF422
7150	4822 130 61207	BC848
7151	4822 130 60143	BF583
7155	4822 130 41646	BF423
7156	4822 130 41782	BF422
7160	5322 130 42012	BC858
7161	4822 130 61207	BC848
7180	4822 130 60373	BC856B

Side rear conn. panel [G1],[G2].

Various

1625	4822 212 30724	SIDE REAR CONN.29"G8
1625	4822 212 30738	SIDE REAR CONN.25"G8
	4822 290 61184	4P MALE
	4822 265 40752	8P MALE
	4822 265 41338	10P MALE
	4822 265 31116	5P MALE
	4822 265 31087	3P MALE
1226	4822 242 81448	TPS3,58MJ
1246	4822 242 81448	TPS3,58MJ

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2221	4822 122 32927	220nF +80-20% 50V
2226	4822 122 32927	220nF +80-20% 50V
2229	4822 122 32927	220nF +80-20% 50V
2231	4822 122 32927	220nF +80-20% 50V
2232	4822 122 32927	220nF +80-20% 50V
2233	5322 122 31842	330pF 2% 63V
2236	4822 122 32927	220nF +80-20% 50V
2237	4822 122 32927	220nF +80-20% 50V
2238	5322 122 31842	330pF 2% 63V
2241	4822 122 32927	220nF +80-20% 50V
2246	4822 122 32927	220nF +80-20% 50V
2249	4822 122 32927	220nF +80-20% 50V
2251	4822 122 32927	220nF +80-20% 50V
2252	4822 122 32927	220nF +80-20% 50V
2253	5322 122 31842	330pF 2% 63V
2256	4822 122 32927	220nF +80-20% 50V
2257	4822 122 32927	220nF +80-20% 50V
2258	5322 122 31842	330pF 2% 63V
2285▲	4822 122 32442	10nF 50V
2288▲	4822 122 32442	10nF 50V
2297	4822 122 32927	220nF +80-20% 50V
2298▲	4822 124 40433	47µF 20% 25V
2299	4822 122 33496	100nF 10% 63V

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3221	4822 051 10759	75Ω 2% 0,25W
3222	4822 051 10759	75Ω 2% 0,25W
3223	4822 051 10759	75Ω 2% 0,25W
3224	4822 051 10681	680Ω 2% 0,25W
3225	4822 051 10331	330Ω 2% 0,25W
3226	4822 051 10102	1k 2% 0,25W
3227	4822 051 10474	470k 2% 0,25W
3228	4822 051 10102	1k 2% 0,25W
3229	4822 051 10152	1k5 2% 0,25W
3230▲	4822 051 10103	10k 2% 0,25W
3231	4822 051 10104	100k 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3236	4822 051 10104	100k 2% 0,25W
3237	4822 051 10102	1k 2% 0,25W
3241	4822 051 10759	75Ω 2% 0,25W
3242	4822 051 10759	75Ω 2% 0,25W
3243	4822 051 10759	75Ω 2% 0,25W
3244	4822 051 10681	680Ω 2% 0,25W
3245	4822 051 10331	330Ω 2% 0,25W
3246	4822 051 10102	1k 2% 0,25W
3247	4822 051 10474	470k 2% 0,25W
3248	4822 051 10102	1k 2% 0,25W
3249	4822 116 52243	1k 5 5% 0,5W
3250▲	4822 051 10103	10k 2% 0,25W
3251	4822 051 10104	100k 2% 0,25W
3252	4822 051 10102	1k 2% 0,25W
3256	4822 051 10104	100k 2% 0,25W
3257	4822 051 10102	1k 2% 0,25W
3281	4822 051 10689	68Ω 2% 0,25W
3282	4822 051 10689	68Ω 2% 0,25W
3283	4822 051 10689	68Ω 2% 0,25W
3284	4822 051 10151	150Ω 2% 0,25W

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3286	4822 051 10151	150Ω 2% 0,25W
3287	4822 051 10151	150Ω 2% 0,25W
3289	4822 051 10151	150Ω 2% 0,25W
3297	4822 051 10152	1k5 2% 0,25W
3298	4822 116 52257	22k 5% 0,5W
3299	4822 051 10153	15k 2% 0,25W

Jumper

4223	4822 051 10008	0Ω 5% 0,25W
4230	4822 051 10008	0Ω 5% 0,25W
4250	4822 051 10008	0Ω 5% 0,25W
4282	4822 051 10008	0Ω 5% 0,25W

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6221	4822 130 81512	LLZ-C6V2
6222	4822 130 81512	LLZ-C6V2
6223	4822 130 81512	LLZ-C6V2
6224▲	4822 130 30621	1N4148
6225▲	4822 130 30621	1N4148
6231	4822 130 81512	LLZ-C6V2
6236	4822 130 81512	LLZ-C6V2
6237	4822 130 34233	BZX79-C5V1
6241	4822 130 81512	LLZ-C6V2
6242	4822 130 81512	LLZ-C6V2
6243	4822 130 81512	LLZ-C6V2
6244▲	4822 130 30621	1N4148
6245▲	4822 130 30621	1N4148
6251	4822 130 81512	LLZ-C6V2
6256	4822 130 81512	LLZ-C6V2
6257	4822 130 80884	LLZ-C5V1
6264▲	4822 130 30621	1N4148
6265▲	4822 130 30621	1N4148
6277	4822 130 34233	BZX79-C5V1
6281	4822 130 81512	LLZ-C6V2
6282	4822 130 81512	LLZ-C6V2
6283	4822 130 81512	LLZ-C6V2
6284	4822 130 81512	LLZ-C6V2
6285▲	4822 130 30621	1N4148
6286▲	4822 130 30621	1N4148
6287	4822 130 81512	LLZ-C6V2
6288	4822 130 34233	BZX79-C5V1
6295▲	4822 130 30621	1N4148
6296▲	4822 130 30621	1N4148
6298	4822 130 34233	BZX79-C5V1

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7226	4822 130 61207	BC848
7229	5322 130 42012	BC858
7246	4822 130 61207	BC848
7249	5322 130 42012	BC858
7297	4822 130 61207	BC848

Interface panel [G1],[G2].

Various

1630	4822 212 30723	INTERFACE PANEL G8
	4822 265 30351	5P MALE
▲	4822 265 40469	6P FEMALE GOLD PLAT
	4822 267 50861	8P MALE
	4822 265 40471	8P FEMALE GOLD PLAT
	4822 265 40442	10P MALE

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2401	4822 122 32927	220nF +80-20% 50V
2402	4822 122 32927	220nF +80-20% 50V
2403	4822 122 32927	220nF +80-20% 50V
2405	4822 122 32927	220nF +80-20% 50V
2406	4822 122 32927	220nF +80-20% 50V
2407	4822 122 32927	220nF +80-20% 50V
2408	4822 122 32927	220nF +80-20% 50V

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2409	4822 122 32927	220nF +80-20% 50V
2410	4822 122 32927	220nF +80-20% 50V
2412	4822 122 32927	220nF +80-20% 50V
2413	4822 122 32927	220nF +80-20% 50V
2414	4822 122 32927	220nF +80-20% 50V
2416	4822 122 32927	220nF +80-20% 50V
2417	4822 122 32927	220nF +80-20% 50V
2419	4822 122 32927	220nF +80-20% 50V
2420	4822 122 32079	3,3pF 5% 50V
2432	4822 122 32482	22pF 2% 63V
2433	4822 122 32927	220nF +80-20% 50V
2440	4822 122 32079	3,3pF 5% 50V
2442	4822 122 32927	220nF +80-20% 50V
2450	4822 122 32079	3,3pF 5% 50V
2465	4822 122 31839	82pF 2% 63V
2466	4822 122 31839	82pF 2% 63V
2467	4822 122 31839	82pF 2% 63V
2468	4822 122 31839	82pF 2% 63V
2470	4822 122 31965	220pF 2% 63V
2474	4822 122 32927	220nF +80-20% 50V
2475	4822 122 32927	220nF +80-20% 50V
2491	4822 124 40849	330µF 20% 16V
2493	4822 124 41561	22µF 20% 16V
2501▲	4822 122 32442	10nF 50V
2503▲	4822 122 32442	10nF 50V
2504▲	4822 122 32442	10nF 50V
2506▲	4822 122 32442	10nF 50V
2601	4822 124 40242	1µF 20% 63V
2603	4822 124 41577	4,7µF 20% 50V
2605	4822 124 40242	1µF 20% 63V
2611	4822 124 40242	1µF 20% 63V
2613	4822 124 41577	4,7µF 20% 50V
2615	4822 124 40242	1µF 20% 63V
2618▲	4822 122 32442	10nF 50V
2621	4822 124 40195	150µF 20% 16V
2622	4822 122 31839	82pF 2% 63V
2623	4822 122 31839	82pF 2% 63V
2624	5322 122 31647	1nF 10% 63V
2625	5322 122 31647	1nF 10% 63V
2626	4822 122 31916	5,6nF 10% 63V
2627	4822 122 31916	5,6nF 10% 63V
2628	4822 122 31782	15000pF 10% 50V
2629	4822 122 31782	15000pF 10% 50V
2630	4822 122 31981	33nF +-0,5pF 50V
2631	4822 122 31981	33nF +-0,5pF 50V
2632	4822 121 51252	470nF 5% 63V
2633	4822 121 51252	470nF 5% 63V
2634	4822 121 51252	470nF 5% 63V
2635	4822 121 51252	470nF 5% 63V
2636	4822 122 33496	100nF 10% 63V
2637	4822 124 40849	330µF 20% 16V
2671	4822 122 31839	82pF 2% 63V
2672	4822 122 31839	82pF 2% 63V
2678	4822 122 33496	100nF 10% 63V

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3402	4822 051 10102	1k 2% 0,25W
3403	4822 051 10102	1k 2% 0,25W
3409	4822 050 11002	1k 1% 0,4W
3410	4822 051 10102	1k 2% 0,25W
3415	4822 051 10102	1k 2% 0,25W
3416	4822 051 10102	1k 2% 0,25W
3420	4822 051 10101	100Ω 2% 0,25W
3421▲	4822 116 52283	4k 7 5% 0,5W
3422▲	4822 051 10472	4k7 2% 0,25W
3423	4822 051 10471	470Ω 2% 0,25W
3424	4822 116 52226	560Ω 5% 0,5W
3426	4822 051 10561	560Ω 2% 0,25W
3427▲	4822 116 52283	4k 7 5% 0,5W
3428	4822 051 10392	3k9 2% 0,25W
3429	4822 051 10102	1k 2% 0,25W

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3431	4822 051 10101	100Ω 2% 0,25W
3433	4822 051 10561	560Ω 2% 0,25W
3434	4822 051 10561	560Ω 2% 0,25W
3435	4822 051 10102	1k 2% 0,25W
3451▲	4822 051 10472	4k7 2% 0,25W
3452▲	4822 051 10472	4k7 2% 0,25W
3453	4822 051 10561	560Ω 2% 0,25W
3454	4822 051 10561	560Ω 2% 0,25W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10471	470Ω 2% 0,25W
3457	4822 051 10829	82Ω 2% 0,25W
3458	4822 051 10689	68Ω 2% 0,25W
3459	4822 051 10152	1k5 2% 0,25W
3460▲	4822 116 52202	82Ω 5% 0,5W
3461▲	4822 116 52199	68Ω 5% 0,5W
3462	4822 051 10101	100Ω 2% 0,25W
3463	4822 051 10101	100Ω 2% 0,25W
3465	4822 051 10271	270Ω 2% 0,25W
3466	4822 051 10271	270Ω 2% 0,25W
3467	4822 051 10271	270Ω 2% 0,25W
3468	4822 051 10271	270Ω 2% 0,25W
3470	4822 051 10331	330Ω 2% 0,25W
3471	4822 051 10152	1k5 2% 0,25W
3472	4822 051 10829	82Ω 2% 0,25W
3473▲	4822 051 10472	4k7 2% 0,25W
3474	4822 051 10152	1k5 2% 0,25W
3475	4822 051 10272	2k7 2% 0,25W
3476	4822 051 10471	470Ω 2% 0,25W
3477	4822 051 10829	82Ω 2% 0,25W
3481▲	4822 051 10472	4k7 2% 0,25W
3482	4822 051 10561	560Ω 2% 0,25W
3483	4822 051 10471	470Ω 2% 0,25W
3484	4822 051 10561	560Ω 2% 0,25W
3485	4822 051 10829	82Ω 2% 0,25W
3486	4822 051 10101	100Ω 2% 0,25W
3487	4822 051 10152	1k5 2% 0,25W
3491▲	4822 052 11108	1Ω 5% 0,5W
3493	4822 116 52191	33Ω 5% 0,5W
3601	4822 051 10393	39k 2% 0,25W
3602	4822 051 10393	39k 2% 0,25W
3603	4822 051 10562	5k6 2% 0,25W
3604	4822 051 10108	1Ω 5% 0,25W
3605	4822 051 10101	100Ω 2% 0,25W
3611	4822 051 10393	39k 2% 0,25W
3612	4822 051 10393	39k 2% 0,25W
3613	4822 116 52289	5k 6 5% 0,5W
3614	4822 051 10108	1Ω 5% 0,25W
3615	4822 116 52175	100Ω 5% 0,5W
3621	4822 051 10478	4Ω7 5% 0,25W
3622	4822 051 10271	270Ω 2% 0,25W
3623	4822 051 10271	270Ω 2% 0,25W
3624	4822 051 10271	270Ω 2% 0,25W
3625	4822 051 10271	270Ω 2% 0,25W
3637▲	4822 052 11108	1Ω 5% 0,5W
3671	4822 051 10271	270Ω 2% 0,25W
3672	4822 051 10271	270Ω 2% 0,25W
3673▲	4822 051 10103	10k 2% 0,25W
3674▲	4822 051 10103	10k 2% 0,25W

Jumper

4402	4822 051 10008	0Ω 5% 0,25W
4403	4822 051 10008	0Ω 5% 0,25W
4405	4822 051 10008	0Ω 5% 0,25W
4410	4822 051 10008	0Ω 5% 0,25W
4412	4822 051 10008	0Ω 5% 0,25W
4417	4822 051 10008	0Ω 5% 0,25W
4425	4822 051 10008	0Ω 5% 0,25W
4428	4822 051 10008	0Ω 5% 0,25W
4510	4822 051 10008	0Ω 5% 0,25W
4513	4822 051 10008	0Ω 5% 0,25W
4514	4822 051 10008	0Ω 5% 0,25W
4515	4822 051 10008	0Ω 5% 0,25W
4517	4822 051 10008	0Ω 5% 0,25W
4518	4822 051 10008	0Ω 5% 0,25W
4603	4822 051 10008	0Ω 5% 0,25W
4618	4822 051 10008	0Ω 5% 0,25W
4620	4822 051 10008	0Ω 5% 0,25W
4624	4822 051 10008	0Ω 5% 0,25W
4625	4822 051 10008	0Ω 5% 0,25W

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6403	4822 130 80954	LLZ-C5V6
6410	4822 130 80954	LLZ-C5V6
6416	4822 130 80954	LLZ-C5V6
6427	4822 130 80446	LL4148
6428	4822 130 80446	LL4148
6474	4822 130 80446	LL4148
6491	4822 130 42488	BYD33D
6493	4822 130 82348	LLZ-F9V1

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7401	4822 209 32264	TEA6414A
7402	4822 209 32264	TEA6414A
7424	4822 130 61207	BC848
7425	5322 130 42012	BC858
7428	5322 130 42012	BC858
7433	4822 130 61207	BC848
7453	4822 130 61207	BC848
7454	5322 130 42012	BC858
7456	4822 130 61207	BC848
7459	4822 130 61207	BC848
7471	4822 130 61207	BC848
7476	4822 130 61207	BC848
7482	4822 130 61207	BC848
7484	5322 130 42012	BC858
7487	4822 130 61207	BC848
7501	4822 209 10263	HEF4052BP
7503	4822 209 10263	HEF4052BP
7601▲	4822 209 83163	LM833N
7621	4822 209 63734	TDA8425/V7
7671	5322 209 10883	PCF8574P

Local keyboard panel [E].

Various

1635	4822 212 30804	LOCAL KEYBOARD P.G8
	4822 276 12465	KEY SWITCH
	5322 278 10118	KEY SWITCH VERT
	4822 134 41153	LAMP HOLDER.
	4822 265 31116	5P MALE
1911	4822 134 40906	LAMP HRS-4180
1913	4822 134 40906	LAMP HRS-4180

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3913	5322 116 53564	3Ω 3 5% 0.5W
3914	5322 116 53564	3Ω 3 5% 0.5W
3915	4822 050 11002	1k 1% 0,4W
3916	4822 116 52249	1k 8 5% 0,5W
3917	4822 116 52207	1k 2 5% 0,5W
3918	4822 116 52207	1k 2 5% 0,5W
3919	4822 116 52249	1k 8 5% 0,5W
3920	4822 116 52249	1k 8 5% 0,5W
3921	4822 116 52289	5k 6 5% 0,5W
3922	4822 116 52238	12k 5% 0,5W
3923	4822 116 52264	27k 5% 0,5W

Headphone panel [F].

Various

1640	4822 212 30722	HEADPH PAN. 29" G8
	4822 267 31684	HEADPH SOCKET
	4822 265 40442	10P MALE

SCAVEM amplifier [K].

Various

1080▲	4822 212 30893	SCAVEM AMPLIFIER G8
	4822 404 31211	BRACKET SCAVEM-PIP
	4822 492 70507	SPRING FIX TRANS
	4822 264 40207	3P MALE

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2700	4822 126 11966	100pF 10% 500V
2701	4822 121 41676	47nF 10% 250V
2702	4822 121 41676	47nF 10% 250V
2705	4822 126 11966	100pF 10% 500V
2707	4822 121 41664	22nF 10% 400V
2708▲	4822 124 41525	100µF 20% 25V
2710▲	4822 124 41525	100µF 20% 25V
2711	4822 124 80673	22µF 20% 200V
2713▲	4822 124 41525	100µF 20% 25V
2714	5322 121 42386	100nF 5% 63V

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3700▲	4822 052 11109	10Ω 5% 0,5W
3701▲	4822 116 52219	330Ω 5% 0,5W
3702	4822 116 52176	10Ω 5% 0,5W
3703	4822 116 52244	15k 5% 0,5W
3704	4822 116 52179	12Ω 5% 0,5W
3705	4822 116 52244	15k 5% 0,5W
3706	4822 116 52179	12Ω 5% 0,5W
3707	4822 116 52222	390Ω 5% 0,5W
3708	4822 116 52291	56k 5% 0,5W
3709	4822 116 52291	56k 5% 0,5W
3710	4822 116 52222	390Ω 5% 0,5W
3711	4822 116 52238	12k 5% 0,5W
3712	4822 116 52188	27Ω 5% 0,5W
3713	5322 116 53564	3Ω 3 5% 0.5W
3714	5322 116 53564	3Ω 3 5% 0.5W
3715	4822 116 52188	27Ω 5% 0,5W
3716	4822 053 12221	220Ω 5% 3W
3717▲	4822 052 11229	22Ω 5% 0,5W

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6700▲	4822 130 30621	1N4148
6701▲	4822 130 30621	1N4148
6702▲	4822 130 30621	1N4148
6703▲	4822 130 30621	1N4148
6704	4822 130 30842	BAV21
6705	4822 130 30842	BAV21

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7700	4822 130 40937	BC548B
7701	4822 130 40937	BC548B
7702▲	4822 130 44197	BC558B
7703	4822 130 63275	2SA1011E
7704	4822 130 63274	2SC2344E

Multi mono/
2SC stereo panel [H].

1090	4822 212 30742	STEREO SOUND B/G G8
1090	4822 212 30849	MULTI SOUND P /56 G8
	4822 265 30351	5P MALE
	4822 265 30742	4P MALE
	4822 266 40168	TERMINAL

Various

1031▲	4822 071 56301	FUSE T630MA
1100	5322 242 72349	9,216 000 MHz
1201	4822 242 70485	SFT5,74MA
1205	4822 156 11157	COIL
1208	4822 242 70714	SFT5,5MA
1220	4822 242 72302	5,850 000 MHz
1275	4822 242 72304	5,824 000 MHz
1502	4822 242 70714	SFT5,5MA
1505	4822 242 70485	SFT5,74MA

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2020	4822 124 21725	470µF 16V
2021	4822 122 32927	220nF +80-20% 50V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40198	470µF 20% 16V
2032	4822 124 41643	100µF 20% 16V
2033	4822 122 33496	100nF 10% 63V
2034▲	4822 122 32442	10nF 50V
2035	4822 124 41433	33µF 20% 10V
2050	4822 122 31981	33nF +-0,5pF 50V
2060	5322 122 31647	1nF 10% 63V

Electrical parts lists

Multi mono/2SC stereo panel [H].

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2061	4822 122 31981	33nF +-0,5pF 50V
2065	4822 122 32507	6,8pF 5% 50V
2066	5322 122 31647	1nF 10% 63V
2067	4822 122 33496	100nF 10% 63V
2071	4822 122 31746	1000pF 2% 63V
2082	4822 122 33496	100nF 10% 63V
2100	4822 124 22582	2,2mF 20% 16V
2120	4822 121 42408	220nF 5% 63V
2131	4822 122 31797	22nF 10% 63V
2140	4822 124 41433	33µF 20% 10V
2141	4822 124 41433	33µF 20% 10V
2151	4822 124 41643	100µF 20% 16V
2160	4822 122 32927	220nF +80-20% 50V
2200	4822 124 41433	33µF 20% 10V
2201	4822 122 32482	22pF 2% 63V
2201▲	4822 122 32442	10nF 50V
2202	4822 122 31971	10pF 2% 63V
2202	4822 124 41641	33
2203▲	4822 122 32442	10nF 50V
2203	4822 122 31797	22nF 10% 63V
2204	4822 122 31797	22nF 10% 63V
2205	4822 122 32765	820pF 2% 63V
2206	4822 121 43066	1nF 1% 400V
2206	4822 122 31746	1000pF 2% 63V
2208	4822 122 32139	12pF 2% 63V
2209	4822 122 31797	22nF 10% 63V
2210	4822 122 31797	22nF 10% 63V
2210	4822 124 41644	0,47µF 20% 50V
2211	4822 121 51262	910pF 1% 400V
2211	4822 124 41644	0,47µF 20% 50V
2213	4822 122 33496	100nF 10% 63V
2214	4822 122 33496	100nF 10% 63V
2215	4822 122 33496	100nF 10% 63V
2216	4822 124 40435	10µF 20% 50V
2216	4822 122 32139	12pF 2% 63V
2217	4822 124 40435	10µF 20% 50V
2217	4822 122 31774	56pF 2% 63V
2218	4822 122 31769	18pF 2% 63V
2220	4822 125 50045	20pF
2230	4822 124 41644	0,47µF 20% 50V
2231▲	4822 122 32442	10nF 50V
2231	4822 122 31765	100pF 2% 63V
2232	4822 124 40272	33µF 20% 16V
2233	4822 124 22606	68µF 20% 16V
2234	4822 122 32765	820pF 2% 63V
2236	4822 122 33496	100nF 10% 63V
2237	4822 121 42936	39nF 1% 63V
2238	4822 124 40195	150µF 20% 16V
2239	4822 121 42936	39nF 1% 63V
2240▲	4822 122 32442	10nF 50V
2241▲	4822 122 32442	10nF 50V
2242	4822 122 33496	100nF 10% 63V
2243	4822 122 33496	100nF 10% 63V
2243	5322 121 42489	33nF 5% 250V
2245	4822 121 51118	56nF 5% 63V
2250	4822 122 31965	220pF 2% 63V
2251	4822 122 31965	220pF 2% 63V
2251	4822 122 32542	47nF 10% 63V
2252	4822 121 51379	82nF 5% 63V
2253	4822 124 41577	4,7µF 20% 50V
2254	4822 121 41934	22nF 10% 100V
2255	4822 121 41934	22nF 10% 100V
2259	4822 124 40435	10µF 20% 50V
2260	4822 124 40435	10µF 20% 50V
2260	4822 122 33496	100nF 10% 63V
2261	4822 122 33496	100nF 10% 63V
2263▲	4822 122 32442	10nF 50V
2263	4822 122 33496	100nF 10% 63V
2264	4822 122 32891	68nF 10% 63V
2265	4822 122 33496	100nF 10% 63V
2266	4822 122 32891	68nF 10% 63V
2270	4822 124 41644	0,47µF 20% 50V
2271▲	4822 122 32442	10nF 50V
2275	4822 122 31774	56pF 2% 63V
2276	4822 126 10324	33pF 2% 63V
2277	4822 122 31769	18pF 2% 63V
2277	4822 124 40198	470µF 20% 16V
2280	4822 122 32504	15pF 2% 63V
2285▲	4822 122 32442	10nF 50V
2290	4822 122 32504	15pF 2% 63V
2291	4822 122 32504	15pF 2% 63V
2300	4822 122 33496	100nF 10% 63V

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2310	4822 122 33496	100nF 10% 63V
2312	4822 122 31772	47pF 2% 63V
2315	4822 125 50045	20pF
2317▲	4822 122 32442	10nF 50V
2318	4822 122 31972	39pF 2% 63V
2319▲	4822 122 32442	10nF 50V
2325	4822 122 31772	47pF 2% 63V
2330▲	4822 124 40433	47µF 20% 25V
2331	4822 122 31797	22nF 10% 63V
2340	4822 122 33496	100nF 10% 63V
2341▲	4822 124 40433	47µF 20% 25V
2345	5322 122 31647	1nF 10% 63V
2350▲	4822 124 40433	47µF 20% 25V
2352	4822 122 31797	22nF 10% 63V
2353	4822 122 31797	22nF 10% 63V
2356	4822 122 31981	33nF +-0,5pF 50V
2357	4822 122 31981	33nF +-0,5pF 50V
2358	4822 122 31782	15000pF 10% 50V
2359	4822 122 31782	15000pF 10% 50V
2370	4822 122 32999	2,2N 5%
2371	4822 122 32999	2,2N 5%
2372	4822 122 33498	2,7nF 10% 63V
2373	4822 122 33498	2,7nF 10% 63V
2374	4822 122 31773	560pF 2% 63V
2375	4822 122 31773	560pF 2% 63V
2380	4822 121 51252	470nF 5% 63V
2381	4822 121 51252	470nF 5% 63V
2502▲	4822 122 32442	10nF 50V
2503	4822 124 40435	10µF 20% 50V
2504	4822 124 40435	10µF 20% 50V
2505	4822 124 41576	2,2µF 20% 50V
2506	4822 124 41576	2,2µF 20% 50V
2508	4822 122 31797	22nF 10% 63V
2510	4822 121 51252	470nF 5% 63V
2511	4822 121 51252	470nF 5% 63V

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3030	4822 051 10471	470Ω 2% 0,25W
3035	4822 051 10331	330Ω 2% 0,25W
3050▲	4822 052 10688	6Ω8 5% 0,33W
3060▲	4822 051 10103	10k 2% 0,25W
3061	4822 051 10432	4k3 2% 0,25W
3062	4822 051 10271	270Ω 2% 0,25W
3063	4822 051 10271	270Ω 2% 0,25W
3064	4822 051 10561	560Ω 2% 0,25W
3065	4822 051 10829	82Ω 2% 0,25W
3084	4822 051 10101	100Ω 2% 0,25W
3085	4822 051 10101	100Ω 2% 0,25W
3100▲	4822 052 10108	1Ω 5% 0,33W
3140	4822 051 10563	56k 2% 0,25W
3141	4822 051 10563	56k 2% 0,25W
3150	4822 051 10202	2k 2% 0,25W
3151	4822 051 10392	3k9 2% 0,25W
3160	4822 051 10101	100Ω 2% 0,25W
3161	4822 051 10101	100Ω 2% 0,25W
3201	4822 051 10102	1k 2% 0,25W
3202	4822 051 10332	3k3 2% 0,25W
3202▲	4822 052 10109	10Ω 5% 0,33W
3205	4822 051 10182	1k8 2% 0,25W
3206	4822 051 10392	3k9 2% 0,25W
3206	4822 051 10152	1k5 2% 0,25W
3208	4822 051 10102	1k 2% 0,25W
3210	4822 051 10154	150k 2% 0,25W
3211	4822 051 10152	1k5 2% 0,25W
3211	4822 051 10224	220k 2% 0,25W
3216	4822 051 10511	510Ω 2% 0,25W
3218	4822 051 10102	1k 2% 0,25W
3230	4822 051 10393	39k 2% 0,25W
3231	4822 051 10829	82Ω 2% 0,25W
3232	4822 051 10563	56k 2% 0,25W
3233	4822 051 10333	33k 2% 0,25W
3237	4822 051 10132	1k3 2% 0,25W
3238▲	4822 051 10472	4k7 2% 0,25W
3239	4822 051 10132	1k3 2% 0,25W
3240	4822 100 20166	10k 30%LIN 0,1W
3241	4822 051 10473	47k 2% 0,25W
3243	4822 051 10561	560Ω 2% 0,25W
3244	4822 100 11348	1k 30%lin 0,1W
3245	4822 051 10824	820k 2% 0,25W
3246	4822 051 10273	27k 2% 0,25W
3247	4822 051 20183	18k 5% 0,1W
3248▲	4822 051 10103	10k 2% 0,25W

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3251	4822 051 10683	68k 2% 0,25W
3254	4822 051 10333	33k 2% 0,25W
3255	4822 051 10105	1M 5% 0,25W
3256	4822 051 10561	560Ω 2% 0,25W
3257	4822 101 10927	470Ω
3259	4822 051 10563	56k 2% 0,25W
3260	4822 051 10563	56k 2% 0,25W
3270	4822 051 10393	39k 2% 0,25W
3275	4822 051 10471	470Ω 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3277▲	4822 052 10688	6Ω8 5% 0,33W
3280▲	4822 116 52219	330Ω 5% 0,5W
3283	4822 051 10331	330Ω 2% 0,25W
3284	4822 051 10331	330Ω 2% 0,25W
3310	4822 051 10102	1k 2% 0,25W
3312▲	4822 051 10103	10k 2% 0,25W
3331	4822 051 10104	100k 2% 0,25W
3332	4822 051 10104	100k 2% 0,25W
3333	4822 051 10473	47k 2% 0,25W
3335	4822 051 10392	3k9 2% 0,25W
3336	4822 051 10392	3k9 2% 0,25W
3345	4822 051 10682	6k8 2% 0,25W
3350▲	4822 052 10109	10Ω 5% 0,33W
3356	4822 051 10122	1k2 2% 0,25W
3357	4822 051 10122	1k2 2% 0,25W
3358	4822 051 10682	6k8 2% 0,25W
3359	4822 051 10682	6k8 2% 0,25W
3366▲	4822 116 52283	4k 7 5% 0,5W
3367▲	4822 116 52283	4k 7 5% 0,5W
3370▲	4822 051 10472	4k7 2% 0,25W
3371▲	4822 051 10472	4k7 2% 0,25W
3399	4822 051 10683	68k 2% 0,25W
3504	4822 051 10561	560Ω 2% 0,25W
3507	4822 051 10339	33Ω 2% 0,25W
3509	4822 050 22703	27k 1% 0,6W
3514	4822 100 11319	4k 7 30%lin 0,1W
3515	4822 051 10512	5k1 2% 0,25W
3999	4822 051 10334	330k 2% 0,25W

Jumper

4032	4822 051 10008	0Ω 5% 0,25W
4033	4822 051 10008	0Ω 5% 0,25W
4042	4822 051 10008	0Ω 5% 0,25W
4043	4822 051 10008	0Ω 5% 0,25W
4044	4822 051 10008	0Ω 5% 0,25W
4045	4822 051 10008	0Ω 5% 0,25W
4046	4822 051 10008	0Ω 5% 0,25W
4047	4822 051 10008	0Ω 5% 0,25W
4048	4822 051 10008	0Ω 5% 0,25W
4049	4822 051 10008	0Ω 5% 0,25W
4050	4822 051 10008	0Ω 5% 0,25W
4060	4822 051 10008	0Ω 5% 0,25W
4061	4822 051 10008	0Ω 5% 0,25W
4080	4822 051 10008	0Ω 5% 0,25W
4090	4822 051 10008	0Ω 5% 0,25W
4112	4822 051 10008	0Ω 5% 0,25W
4132	4822 051 10008	0Ω 5% 0,25W
4210	4822 051 10008	0Ω 5% 0,25W
4211	4822 051 10008	0Ω 5% 0,25W
4220	4822 051 10008	0Ω 5% 0,25W
4230	4822 051 10008	0Ω 5% 0,25W
4270	4822 051 10008	0Ω 5% 0,25W
4286	4822 051 10008	0Ω 5% 0,25W
4287	4822 051 10008	0Ω 5% 0,25W
4304	4822 051 10008	0Ω 5% 0,25W
4309	4822 051 10008	0Ω 5% 0,25W
4315	4822 051 10008	0Ω 5% 0,25W
4316	4822 051 10008	0Ω 5% 0,25W
4321	4822 051 10008	0Ω 5% 0,25W
4322	4822 051 10008	0Ω 5% 0,25W

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5031	4822 157 51157	3.3µH
5040	4822 157 53575	3.3µH
5200	4822 157 53575	3.3µH
5206	4822 157 52511	0,83µH
5211	4822 157 52511	0,83µH
5233	4822 157 52512	10600,0 µH
5250	4822 157 51238	,820µH
5251	4822 157 51238	,820µH
5300	4822 157 53575	3.3µH
5317	4822 157 53575	3.3µH

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5325	4822 152 20677	10µH
5330	4822 157 53575	3.3µH
5340	4822 157 53575	3.3µH
5501	4822 157 51157	3.3µH

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6030	4822 130 80954	BZV55-C5V6
6031	4822 130 80446	LL4148
6035	4822 130 81027	LLZ-C11
6100	4822 130 42489	BYD33G
6150	4822 130 80446	LL4148
6312	5322 130 34953	BB405B

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7030	5322 130 41983	BC858B
7031	4822 130 60775	2SD1266P
7035	4822 130 61207	BC848
7040	5322 209 10883	PCF8574P
7060	5322 130 42136	BC848C
7065	4822 130 60514	BC859B
7100	4822 209 30147	TDA8415
7110	4822 209 63998	TDA9820
7200	4822 209 62227	TA8662N
7206	4822 209 73756	U2829B
7231	5322 130 41983	BC858B
7236	4822 209 72371	TDA8405/V5
7300	4822 209 61114	CF70123
7330	4822 209 72545	SAA7220P/C
7333	4822 130 61207	BC848
7340	4822 209 73236	TDA1543/N2
7350▲	4822 209 83163	LM833N
7351▲	4822 209 83163	LM833N

NICAM stereo panel [I].

Various

1090	4822 212 30728	MULTI STEREO NICAM I
1090	4822 212 30852	MULTI STER. NICAM B/G
1090	4822 212 30729	TWIN NICAM B/G G8
	4822 265 30742	4P MALE
	4822 266 40168	F-PIN TERMINAL
1031▲	4822 071 56301	FUSE T630MA
1100	5322 242 72349	CRYSTAL 9,216 MHz
1205	4822 156 11158	LC FILTER VAR 6M55
1220	4822 242 72347	CHRISTAL 6,552 MHz
1275	4822 242 72304	CHRISTAL 5,824 MHz
1501	4822 242 80271	SFT4,5MA
1502	4822 242 70714	SFT5,5MA
1503	4822 242 71841	SFT6,0MA
1504	4822 242 72059	SFT6,5MA
1505	4822 242 70485	SFT5,74MA
1506	4822 242 80292	SFT6,74MA

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2020	4822 124 21725	470µF 16V
2021	4822 122 32927	220nF +80-20% 50V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40198	470µF 20% 16V
2032	4822 124 41643	100µF 20% 16V
2033	4822 122 33496	100nF 10% 63V
2034▲	4822 122 32442	10nF 50V
2035	4822 124 41433	33µF 20% 10V
2100	4822 124 22582	2,2mF 20% 16V
2100	4822 122 31825	27pF 2% 63V
2120	4822 121 42408	220nF 5% 63V
2131	4822 122 31797	22nF 10% 63V
2140	4822 124 41433	33µF 20% 10V
2141	4822 124 41433	33µF 20% 10V
2151	4822 124 41643	100µF 20% 16V
2160	4822 122 32927	220nF +80-20% 50V
2200	4822 124 41433	33µF 20% 10V
2201▲	4822 122 32442	10nF 50V
2202	4822 124 41641	33

Electrical parts lists

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2203▲	4822 122 32442	10nF 50V
2206	4822 122 31746	1000pF 2% 63V
2210	4822 124 41644	0,47µF 20% 50V
2211	4822 124 41644	0,47µF 20% 50V
2216	4822 122 32139	12pF 2% 63V
2217	4822 122 31774	56pF 2% 63V
2218	4822 122 31769	18pF 2% 63V
2220	4822 125 50045	20pF
2230	4822 124 41644	0,47µF 20% 50V
2231▲	4822 122 32442	10nF 50V
2240▲	4822 122 32442	10nF 50V
2241▲	4822 122 32442	10nF 50V
2242	4822 122 33496	100nF 10% 63V
2243	4822 122 33496	100nF 10% 63V
2250	4822 122 31965	220pF 2% 63V
2251	4822 122 31965	220pF 2% 63V
2260	4822 122 33496	100nF 10% 63V
2261	4822 122 33496	100nF 10% 63V
2263▲	4822 122 32442	10nF 50V
2270	4822 124 41644	0,47µF 20% 50V
2271▲	4822 122 32442	10nF 50V
2275	4822 122 31774	56pF 2% 63V
2276	4822 126 10324	33pF 2% 63V
2277	4822 122 31769	18pF 2% 63V
2280	4822 122 32504	15pF 2% 63V
2285▲	4822 122 32442	10nF 50V
2290	4822 122 32504	15pF 2% 63V
2291	4822 122 32504	15pF 2% 63V
2300	4822 122 33496	100nF 10% 63V
2310	4822 122 33496	100nF 10% 63V
2312	4822 122 31772	47pF 2% 63V
2315	4822 125 50045	20pF
2317▲	4822 122 32442	10nF 50V
2318	4822 122 31972	39pF 2% 63V
2319▲	4822 122 32442	10nF 50V
2325	4822 122 31772	47pF 2% 63V
2330▲	4822 124 40433	47µF 20% 25V
2331	4822 122 31797	22nF 10% 63V
2340	4822 122 33496	100nF 10% 63V
2341▲	4822 124 40433	47µF 20% 25V
2345	5322 122 31647	1nF 10% 63V
2350▲	4822 124 40433	47µF 20% 25V
2352	4822 122 31797	22nF 10% 63V
2353	4822 122 31797	22nF 10% 63V
2356	4822 122 31981	33nF +-0,5pF 50V
2356	4822 122 31782	15000pF 10% 50V
2357	4822 122 31782	15000pF 10% 50V
2357	4822 122 31981	33nF +-0,5pF 50V
2358	4822 122 31782	15000pF 10% 50V
2358	4822 122 32597	6,8nF 10% 63V
2359	4822 122 31782	15000pF 10% 50V
2359	4822 122 32597	6,8nF 10% 63V
2370	4822 122 32999	2,2N 5%
2371	4822 122 32999	2,2N 5%
2372	4822 122 33498	2,7nF 10% 63V
2373	4822 122 33498	2,7nF 10% 63V
2374	4822 122 31773	560pF 2% 63V
2375	4822 122 31773	560pF 2% 63V
2380	4822 121 51252	470nF 5% 63V
2381	4822 121 51252	470nF 5% 63V
2501	4822 122 31971	10pF 2% 63V
2502▲	4822 122 32442	10nF 50V
2503	4822 124 40435	10µF 20% 50V
2504	4822 124 40435	10µF 20% 50V
2505	4822 124 41576	2,2µF 20% 50V
2506	4822 124 41576	2,2µF 20% 50V
2508	4822 122 31797	22nF 10% 63V
2510	4822 121 51252	470nF 5% 63V
2511	4822 121 51252	470nF 5% 63V

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3030	4822 051 10471	470Ω 2% 0,25W
3035	4822 051 10331	330Ω 2% 0,25W
3050▲	4822 052 10688	6Ω8 5% 0,33W
3060▲	4822 051 10103	10k 2% 0,25W
3061	4822 051 10432	4k3 2% 0,25W
3062	4822 051 10271	270Ω 2% 0,25W
3063	4822 051 10271	270Ω 2% 0,25W
3064	4822 051 10561	560Ω 2% 0,25W
3065	4822 051 10829	82Ω 2% 0,25W
3084	4822 051 10101	100Ω 2% 0,25W
3085	4822 051 10101	100Ω 2% 0,25W

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3100▲	4822 052 10108	1Ω 5% 0,33W
3140	4822 051 10563	56k 2% 0,25W
3141	4822 051 10563	56k 2% 0,25W
3150	4822 051 10202	2k 2% 0,25W
3151	4822 051 10392	3k9 2% 0,25W
3160	4822 051 10101	100Ω 2% 0,25W
3161	4822 051 10101	100Ω 2% 0,25W
3202▲	4822 052 10109	10Ω 5% 0,33W
3205	4822 051 10182	1k8 2% 0,25W
3206	4822 051 10392	3k9 2% 0,25W
3210	4822 051 10154	150k 2% 0,25W
3211	4822 051 10224	220k 2% 0,25W
3216	4822 051 10511	510Ω 2% 0,25W
3218	4822 051 10102	1k 2% 0,25W
3230	4822 051 10393	39k 2% 0,25W
3270	4822 051 10393	39k 2% 0,25W
3275	4822 051 10471	470Ω 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3280▲	4822 116 52219	330Ω 5% 0,5W
3310	4822 051 10102	1k 2% 0,25W
3312▲	4822 051 10103	10k 2% 0,25W
3331	4822 051 10104	100k 2% 0,25W
3332	4822 051 10104	100k 2% 0,25W
3333	4822 051 10473	47k 2% 0,25W
3335	4822 051 10392	3k9 2% 0,25W
3336	4822 051 10392	3k9 2% 0,25W
3345▲	4822 051 10472	4k7 2% 0,25W
3345	4822 051 10682	6k8 2% 0,25W
3350▲	4822 052 10109	10Ω 5% 0,33W
3350▲	4822 052 10109	10Ω 5% 0,33W
3356	4822 051 10272	2k7 2% 0,25W
3356	4822 051 10122	1k2 2% 0,25W
3357	4822 051 10122	1k2 2% 0,25W
3357	4822 051 10272	2k7 2% 0,25W
3358	4822 051 10153	15k 2% 0,25W
3358	4822 051 10682	6k8 2% 0,25W
3359	4822 051 10682	6k8 2% 0,25W
3359	4822 051 10153	15k 2% 0,25W
3366▲	4822 116 52283	4k 7 5% 0,5W
3366▲	4822 116 52283	4k 7 5% 0,5W
3367▲	4822 116 52283	4k 7 5% 0,5W
3367▲	4822 116 52283	4k 7 5% 0,5W
3370▲	4822 051 10472	4k7 2% 0,25W
3371▲	4822 051 10472	4k7 2% 0,25W
3999	4822 111 90368	680k 2% 0,125W
3501	4822 051 10102	1k 2% 0,25W
3502	4822 051 20222	2k2 5% 0,1W
3504	4822 051 10561	560Ω 2% 0,25W
3505	4822 051 10471	470Ω 2% 0,25W
3506	4822 051 10471	470Ω 2% 0,25W
3507	4822 051 10339	33Ω 2% 0,25W
3508	4822 051 10339	33Ω 2% 0,25W
3509	4822 050 22703	27k 1% 0,6W
3514	4822 100 11319	4k 7 30%lin 0,1W
3515	4822 051 10512	5k1 2% 0,25W

Jumper

4032	4822 051 10008	0Ω 5% 0,25W
4033	4822 051 10008	0Ω 5% 0,25W
4042	4822 051 10008	0Ω 5% 0,25W
4043	4822 051 10008	0Ω 5% 0,25W
4044	4822 051 10008	0Ω 5% 0,25W
4045	4822 051 10008	0Ω 5% 0,25W
4046	4822 051 10008	0Ω 5% 0,25W
4047	4822 051 10008	0Ω 5% 0,25W
4048	4822 051 10008	0Ω 5% 0,25W
4049	4822 051 10008	0Ω 5% 0,25W
4050	4822 051 10008	0Ω 5% 0,25W
4060	4822 051 10008	0Ω 5% 0,25W
4061	4822 051 10008	0Ω 5% 0,25W
4080	4822 051 10008	0Ω 5% 0,25W
4090	4822 051 10008	0Ω 5% 0,25W
3502	4822 051 10221	220Ω 2% 0,25W
3999	4822 051 10334	330k 2% 0,25W
4112	4822 051 10008	0Ω 5% 0,25W
4132	4822 051 10008	0Ω 5% 0,25W
4304	4822 051 10008	0Ω 5% 0,25W
4309	4822 051 10008	0Ω 5% 0,25W
4315	4822 051 10008	0Ω 5% 0,25W
4316	4822 051 10008	0Ω 5% 0,25W
4321	4822 051 10008	0Ω 5% 0,25W
4322	4822 051 10008	0Ω 5% 0,25W

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5031	4822 157 51157	3.3µH
5040	4822 157 53575	3.3µH
5200	4822 157 53575	3.3µH
5250	4822 157 51238	,820µH
5251	4822 157 51238	,820µH
5300	4822 157 53575	3.3µH
5317	4822 157 53575	3.3µH
5325	4822 152 20677	10µH
5330	4822 157 53575	3.3µH
5340	4822 157 53575	3.3µH
5501	4822 157 51157	3.3µH

▶|

6030	4822 130 80954	BZV55-C5V6
6031	4822 130 80446	LL4148
6035	4822 130 81027	LLZ-C11
6100	4822 130 42489	BYD33G
6150	4822 130 80446	LL4148
6312	5322 130 34953	BB405B

▭ ⊗

7030	5322 130 41983	BC858B
7031	4822 130 60775	2SD1266P
7035	4822 130 61207	BC848
7040	5322 209 10883	PCF8574P
7060	5322 130 42136	BC848C
7065	4822 130 60514	BC859B
7100	4822 209 30147	TDA8415
7110	4822 209 63998	TDA9820
7200	4822 209 62227	TA8662N
7300	4822 209 61114	CF70123
7330	4822 209 72545	SAA7220P/C
7333	4822 130 61207	BC848
7340	4822 209 73236	TDA1543/N2
7350▲	4822 209 83163	LM833N
7351▲	4822 209 83163	LM833N

BTSC stereo panel [L].

Various

1090	4822 212 30851	BTSC STEREO G8
	4822 265 41087	9 P MALE
	4822 265 41087	9 P MALE

⊣⊢

2115	4822 122 31947	100nF 20% 63V
2137	4822 121 42408	220nF 5% 63V
2140	4822 124 40242	1µF 20% 63V
2145▲	4822 124 41525	100µF 20% 25V
2146	4822 122 31947	100nF 20% 63V
2155	4822 124 40435	10µF 20% 50V
2157	4822 124 41629	15µF 20% 50V
2160	4822 121 51252	470nF 5% 63V
2161	4822 122 31947	100nF 20% 63V
2167	4822 124 40435	10µF 20% 50V
2171	4822 124 40435	10µF 20% 50V
2174	4822 124 40242	1µF 20% 63V
2175	4822 124 40242	1µF 20% 63V
2176	4822 124 41577	4,7µF 20% 50V
2177	4822 124 41577	4,7µF 20% 50V
2181	4822 122 32542	47nF 10% 63V
2182▲	4822 124 41525	100µF 20% 25V
2183	4822 124 40435	10µF 20% 50V
2185	4822 124 40435	10µF 20% 50V
2186	4822 121 42408	220nF 5% 63V
2190	4822 124 40242	1µF 20% 63V
2195	4822 124 40242	1µF 20% 63V

-▭-

3008	4822 051 10332	3k3 2% 0,25W
3012	4822 051 10152	1k5 2% 0,25W
3100	4822 051 10152	1k5 2% 0,25W
3101	4822 051 10113	11k 2% 0,25W
3105	4822 051 10332	3k3 2% 0,25W
3106▲	4822 051 10103	10k 2% 0,25W
3110	4822 051 10332	3k3 2% 0,25W
3111▲	4822 051 10103	10k 2% 0,25W
3113	4822 051 10104	100k 2% 0,25W
3114▲	4822 051 10103	10k 2% 0,25W

-▭-

3115▲	4822 052 10108	1Ω 5% 0,33W
3116	4822 051 10101	100Ω 2% 0,25W
3117	4822 051 10101	100Ω 2% 0,25W
3120	4822 100 11319	4k 7 30%lin 0,1W
3122▲	4822 051 10103	10k 2% 0,25W
3123	4822 051 10223	22k 2% 0,25W
3127	4822 100 11213	22k 30%lin 0,1W
3128	4822 051 10392	3k9 2% 0,25W
3130	4822 100 11483	10k 30% 0,1W
3131	4822 051 10243	24k 2% 0,25W
3135	4822 100 11213	22k 30%lin 0,1W
3138	4822 051 10008	0Ω 5% 0,25W
3140	4822 051 10182	1k8 2% 0,25W
3142	4822 051 10102	1k 2% 0,25W
3144	4822 051 10102	1k 2% 0,25W
3145▲	4822 052 10338	3Ω3 5% 0,33W
3155▲	4822 050 21003	10k 1% 0,6W
3156	4822 050 23002	3k 1% 0,6W
3158	4822 051 10104	100k 2% 0,25W
3159	4822 100 11392	47k 30%lin 0,1W
3165	4822 100 11213	22k 30%lin 0,1W
3168	4822 051 10008	0Ω 5% 0,25W
3170	4822 100 11213	22k 30%lin 0,1W
3178	4822 051 10008	0Ω 5% 0,25W
3180	4822 051 10822	8k2 2% 0,25W
3181	4822 051 10161	160Ω 2% 0,25W
3185	4822 051 10182	1k8 2% 0,25W
3186	4822 051 10131	130Ω 2% 0,25W
3188	4822 051 10008	0Ω 5% 0,25W
3190	4822 051 10184	180k 2% 0,25W
3191	4822 051 10333	33k 2% 0,25W
3195	4822 051 10184	180k 2% 0,25W
3196	4822 051 10333	33k 2% 0,25W

Jumper

4020	4822 051 10008	0Ω 5% 0,25W
4025	4822 051 10008	0Ω 5% 0,25W
4101	4822 051 10008	0Ω 5% 0,25W
4123	4822 051 10008	0Ω 5% 0,25W

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6007	4822 130 80446	LL4148
6015	4822 130 80446	LL4148
6100	4822 130 81288	LLZ-C12
6105	4822 130 80446	LL4148
6110	4822 130 80446	LL4148
6111	4822 130 80446	LL4148

▭ ⊗

7101	5322 130 42136	BC848C
7105	5322 130 42136	BC848C
7110	5322 130 42136	BC848C
7115	5322 209 10883	PCF8574P
7120	5322 130 42136	BC848C
7145	4822 209 30946	TDA3833/V3

TXT panel [J].

Various

1430▲	4822 212 30476	TELETEXT MODULE
▲	4822 265 40469	6P FEMALE GOLD PLATE
	4822 265 40471	8P FEMALE GOLD PLATE
1801	4822 242 73552	14,875 000 MHz
1802	4822 242 71508	CSA6,00MHz

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2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 2% 63V
2795	4822 122 31769	18pF 2% 63V
2796	4822 122 31769	18pF 2% 63V
2797	4822 122 31769	18pF 2% 63V
2800	4822 124 41584	100µF 20% 10V
2801▲	4822 122 32442	10nF 50V
2802	4822 122 31972	39pF 2% 63V
2803	4822 122 31972	39pF 2% 63V
2804	4822 122 31766	120pF 2% 63V
2805	4822 122 31766	120pF 2% 63V

Colour television

Chassis G8

Service
Service
Service

AA 93.01

Service Information

Introduction

Since production start of the G8 family several changes have been introduced.
From production code SV01... onwards new PWB's have been introduced for the LSP and SSP.
This publication also includes the PIP information which will be introduced for some versions.

Table of contents

Page numbering

Note:
For the page numbers the original numbering of the Service Manual has been used.

Electrical diagrams and print lay-outs		*Diagram*	*PWB*
CRT	(diagram D)	11	
Lay-out: Large Signal Panel			7
Lay-out: Small Signal Panel			8
Tuner / IF	(diagram B)	9	8
Chroma	(diagram C)	10	8
Sound / Headphone connection	(diagram F)	13	8 / 13
Controls	(diagram E)	12	8
Power supply and synchronisation	(diagram A)	6	7
Picture In Picture (PIP)	(diagram M)	21	22
Lay-out: PIP			22
Electrical adjustments PIP		22	
Spare parts list for new or changed items		23	

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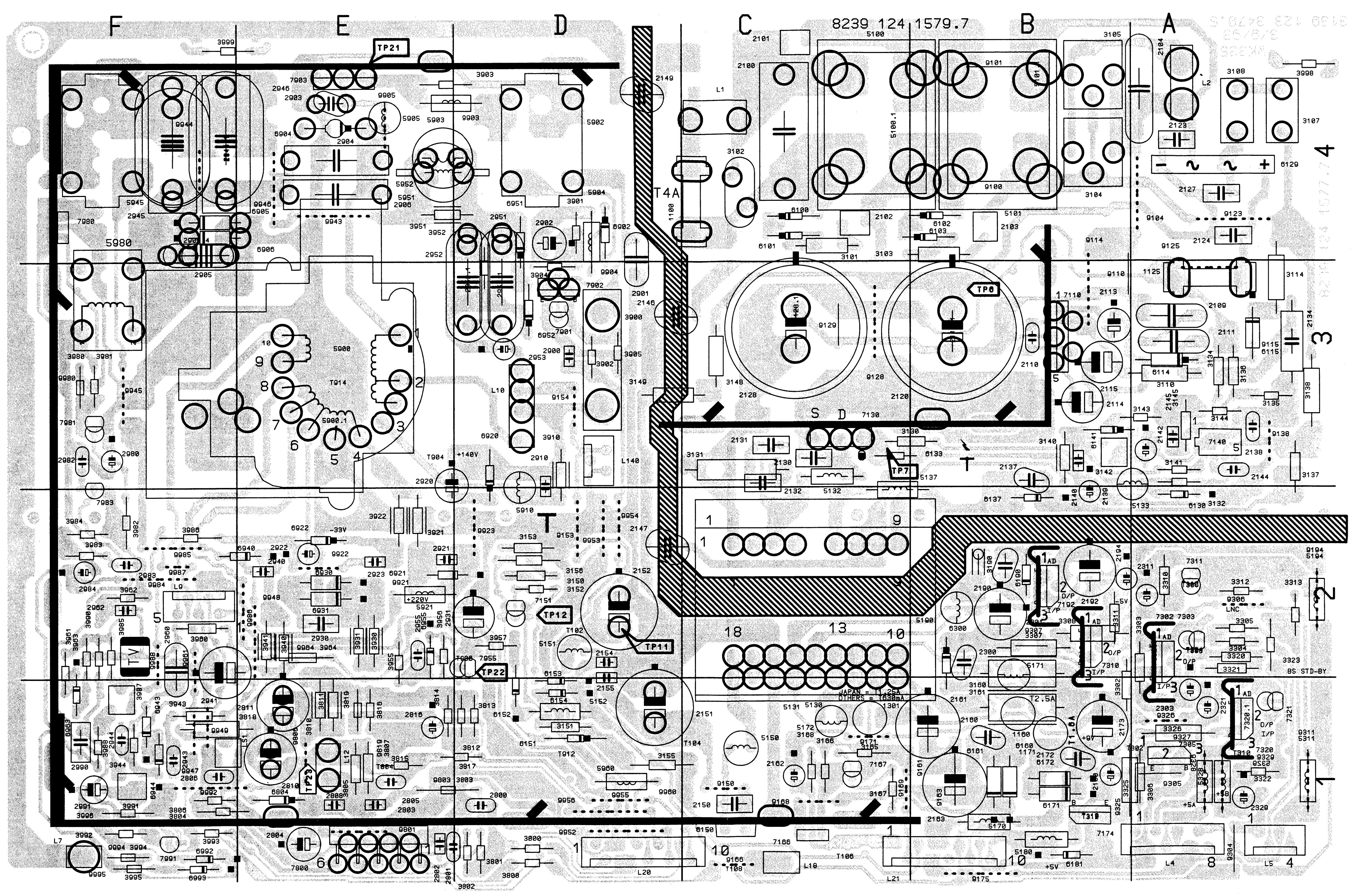
PCS 73 501

Large signal panel / Panel de señal grande

CHASSIS G8 **7**



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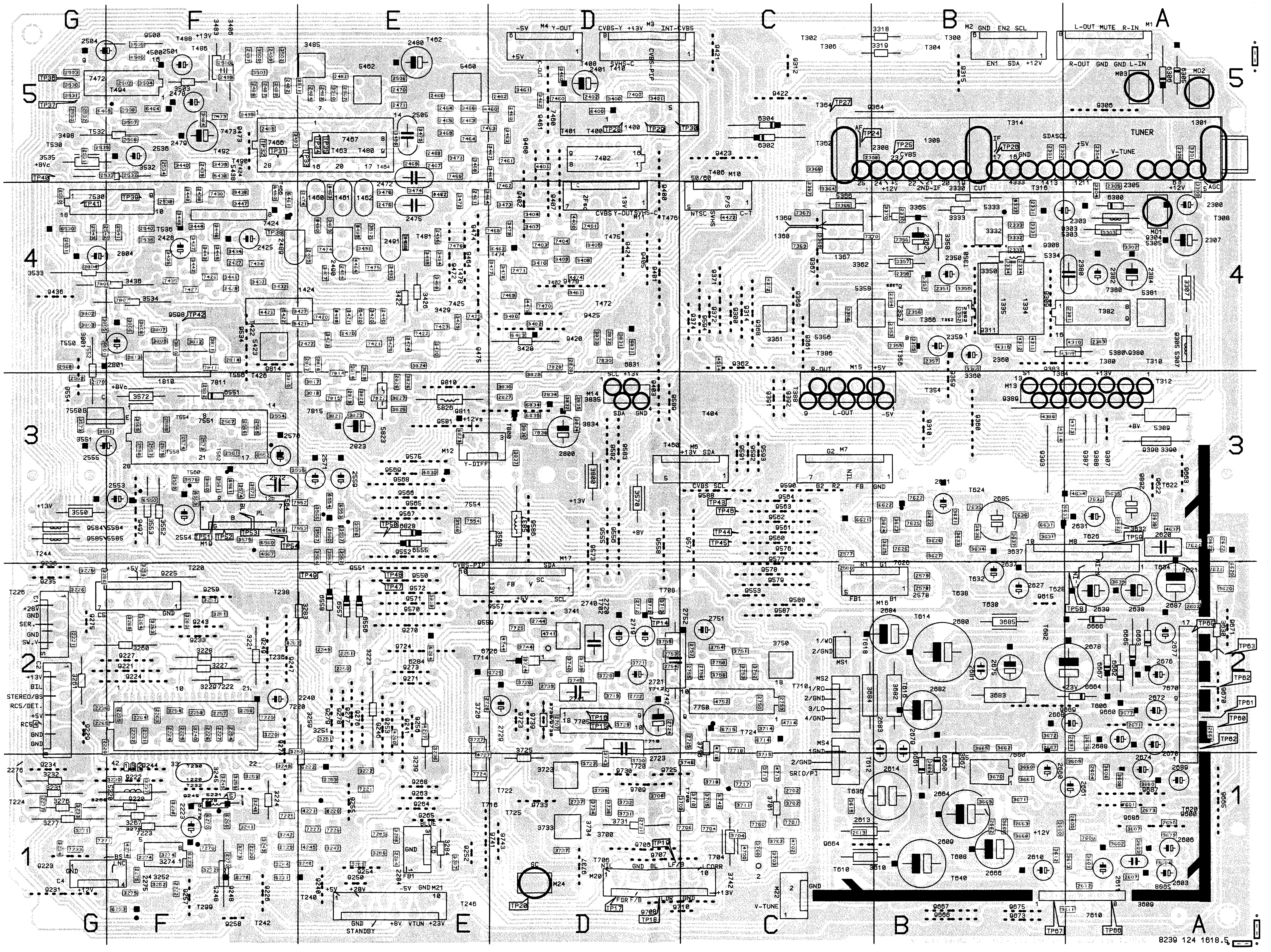
L10	D3	LS1	F1	2110	B3	2130	C3	2146	D3	2162	C1	2303	A1	2806	F1	2905	F4	2940	E2	2952	D3	2991	F1
L12	E1	1100	C4	2111	A3	2131	C3	2147	D2	2163	B1	2311	A2	2808	E1	2905	F4	2941	F2	2952	D3	3101	C4
L140	D3	1125	A3	2113	B3	2132	C2	2148	D3	2163	B1	2321	A1	2810	E1	2906	E4	2943	F1	2953	D3	3102	C4
L2	A4	1160	B1	2114	B3	2134	A3	2149	D4	2172	B1	2328	A1	2810	E1	2907	E4	2944	F1	2955	E2	3103	B4
L20	D1	1171	B1	2115	B3	2137	B2	2150	C1	2173	B1	2329	A1	2811	E1	2910	D2	2945	F4	2960	F2	3104	B4
L21	B1	2100	C4	2120	B3	2138	A3	2151	D1	2180	B1	2800	D1	2816	E1	2920	E2	2945	F4	2962	F2	3105	B4
L4	A1	2101	C4	2123	A4	2139	B2	2152	D2	2190	B2	2801	E1	2900	D3	2921	E2	2945	F4	2980	F3	3107	A4
L5	A1	2102	C4	2124	A4	2140	B3	2154	D2	2192	B2	2802	E1	2901	D3	2922	E2	2946	F4	2982	F3	3108	A4
L7	F1	2103	B4	2127	A4	2142	A3	2155	D2	2194	B2	2803	E1	2902	D4	2923	E2	2946	F4	2983	F2	3110	A3
L8	F2	2109	A3	2128	C3	2144	A3	2160	B1	2300	B2	2804	E1	2903	E4	2930	E2	2951	D3	2984	F2	3114	A3

3130	B3	3143	A3	3160	B2	3304	A2	3329	A1	3811	E1	3832	E1	3921	E2	3956	E2	3984	F2	3996	F1	7901	D3
3131	C3	3144	A3	3161	B1	3305	A2	3800	D1	3812	D1	3833	D1	3922	E2	3957	D2	3985	F2	3998	A4	7902	D3
3132	A2	3145	A3	3165	C1	3310	A2	3801	D1	3813	D1	3834	D1	3930	E2	3960	F2	3986	F2	3999	F4	7903	E4
3134	A3	3148	C3	3166	C1	3311	B2	3802	D1	3814	E1	3835	D1	3931	E2	3961	F2	3987	F1	5100	C4	7955	D2
3135	A3	3149	D3	3167	C1	3312	A2	3803	E1	3815	E1	3900	D3	3940	E2	3962	F2	3988	F1	5100	C4	7980	F4
3136	A3	3150	D2	3168	C1	3313	A2	3804	F1	3816	E1	3901	D4	3941	E2	3963	F2	3990	F2	5101	B4	7981	F3
3137	A3	3151	D1	3190	B2	3320	A2	3805	E1	3817	E1	3902	D3	3943	F1	3964	E2	3991	F1	5101	B4	7981	F3
3138	A3	3152	D2	3300	C1	3321	A2	3806	F1	3818	F1	3903	E4	3944	F1	3980	F3	3992	F1	5130	C2	7983	F2
3140	B3	3153	D2	3301	C1	3322	A1	3807	E1	3819	E1	3904	D3	3951	E4	3981	F3	3993	F1	5131	C2	7991	F1
3141	A3	3155	D1	3302	B2	3323	A2	3808	D1	3830	E1	3905	D3	3952	D3	3982	F2	3994	F1	5132	C2	9100	B4
3142	B3	3156	D2	3303	A2	3328	A1	3810	E1	3831	E1	3910	D2	3955	E2	3983	F2	3995	F1	5150	C1	9101	B4

5151	D2	9104	A4
5152	D1	9110	B3
5170	B1	9114	B3
5171	B2	9115	A3
5172	C1	9123	A4
5180	B1	9125	A3
5190	B2	9128	C3
5900	E3	9129	C3
5902	D4	9138	A3
5903	E4	9150	C1
5904	D4	9153	D2
5905	E4	9154	D3
5910	D2	9161	B1
5921	E2	9168	C1
5945	F4	9169	C1
5951	E4	9171	C1
5952	E4	9175	B1
5960	D1	9320	A1
5980	F3	9321	A1
6100	C4	9801	E1
6101	C4	9810	E1
6102	B4	9819	E1
6103	B4	9830	E2
6114	A3	9903	E4
6115	A3	9904	D4
6129	A4	9905	E4
6130	A2	9921	E2
6131	C2	9922	E2
6133	C3	9923	D2
6137	B2	9943	E4
6141	B3	9944	F4
6150	C1	9945	F3
6151	D1	9946	E4
6152	D2	9947	F1
6153	D2	9948	E2
6154	D1	9952	D1
6160	B1	9953	D2
6161	B1	9954	D2
6170	A1	9955	D1
6171	B1	9956	D1
6172	B1	9960	D1
6181	B1	9961	F2
6190	B2	9964	E2
6300	B2	9980	F3
6804	E1	9984	F2
6902	D4	9985	F2
6904	E4	9986	E2
6905	F4	9987	F2
6906	F4	9988	F2
6920	D2	9992	F1
6921	E2	9994	F1
6922	E2	9995	F1
6930	E2		
6931	E2		
6940	E2		
6943	F1		
6944	F1		
6951	D4		
6952	D3		
6955	E2		
6963	F1		
6992	F1		
6993	F1		
7110	B3		
7130	C3		
7140	A3		
7151	D2		
7166	C1		
7167	C1		
7174	B1		
7192	B2		
7192	B2		
7302	A2		
7302	A2		
7303	A2		
7310	B2		
7310	B2		
7311	A2		
7320	A1		
7320	A1		
7321	A1		
7800	E1		
7830	E1		
7831	D1		

Small signal panel / Panel de señal pequeño

CHASSIS G8 **8**


G
F
E
D
C
B
A
5
4
3
2
1
TUNER
M1
L-OUT MUTE R-IN
R-OUT GND GND L-IN
M2 GND EN2 SCL
EN1 SDA +12V
M3
CVBS-Y +13V INT-CVBS
SVHS-C
CVBS-PIP
M4 Y-OUT
-5V
+5V
C-OUT
M6
+13V SDA
CVBS SCL
M7
G2
B2 R2 FB GND
M8
M10
50/60
NTSC SVHS P/S C-T
M12
Y-DIFF
M13
M14
SCL +13V
SDA GND
M15
R-OUT +5V
L-OUT -5V
M16
R1 G1 B1
FB1
M17
CVBS-PIP
SDA
FB V SC
+5V SCL
M19
M20
FDRF/B
GND BL LF/B
LCORR
NIL
M21
GND
STANDBY
+8V VTUN +23V
-5V GND
+28V
M22
V-TUNE
M24
SC
MS1
1/WO
2/GND
MS2
1/RO
2/GND
3/LO
4/GND
MS4
1GND
2/GND
SR(O/P)
+28V
GND
SER.
GND
SW.V
+13V
BIL
STEREO/BS
RCS/DET.
+5V
RCS
GND
GND
8239 124 1618.5

Small signal panel / Panel de señal pequeño

1	D2
2	C1
C1	G2
C2	G2
C4	G1
C5	F2
C6	E1
M1	A5
M2	B5
M3	D5
M4	D5
M6	C3
M7	C3
M8	A3
M10	C4
M11	D4
M12	E3
M13	A3
M14	D3
M15	C3
M16	C2
M17	D2
M18	A4
M19	F3
M20	D1
M21	E1
M22	C1
MO1	A4
MO2	A5
MO3	A5
MS1	C2
MS2	C2
MS4	C1
1220	F1
1301	A5
1308	B5
1334	B4
1335	B4
1367	C4
1368	C4
1369	C4
1400	D5
1424	F4
1460	E4
1461	E4
1462	E4
1680	B1
1810	F4
2220	G2
2221	G2
2222	F1
2223	F1
2224	F2
2225	F2
2226	F2
2227	F2
2228	F2
2229	F1
2230	F1
2231	F2
2232	F2
2235	G2
2236	G2
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2249	E2
2250	E2
2251	E2
2253	E1
2256	F2
2257	F2
2258	F2
2263	F2
2264	F2
2265	G2
2270	F1
2274	F1
2275	F1
2300	A4
2301	B5
2302	B5
2303	B4
2304	A5
2305	A5
2306	A5
2307	A4
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2537	F5
2538	F4
2539	G5
2540	F4
2541	G4
2542	G4
2543	G4
2550	G4
2551	G4
2552	F3
2553	G3
2554	F3
2555	G3
2556	F3
2557	F3
2558	F3
2559	E3
2560	E3
2561	F3
2562	F3
2563	F3
2564	F3
2565	F3
2566	F3
2567	F3
2568	G4
2569	G4
2570	G3
2571	E3
2572	F3
2573	F3
2574	F3
2575	F3
2576	F3
2600	A1
2602	A2
2603	A1
2604	A1
2606	A1
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2609	B1
2610	B1
2611	A1
2612	A1
2613	C1
2614	B1
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2622	A3
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2668	A2
2669	A2
2670	A2
2671	A2
2672	A2
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2682	B2
2683	B2
2684	B2
2685	B3
2686	A3
2687	A2
2688	A2
2689	A1
2690	A1
2691	A2
2702	C1
2707	D2
2712	D2
2719	D2
2720	D2
2721	D2
2722	D2
2723	D2
2724	D2
2725	D2
2728	E2
2729	E2
2731	D1
2737	D1
2739	D2
2740	D2
2741	D2
2742	D2
2744	D2
2750	C2
2751	C2
2752	D2
2753	D2
2754	D2
2755	D2
2756	C2
2757	C2
2758	C2
2759	C2
2800	D3
2801	G4
2804	G4
2814	F4
2817	F4
2819	E3
2823	E3
2826	E3
2827	E3
2828	D3
3220	F2
3221	F2
3222	E1
3223	E2
3224	F1
3225	G2
3226	G2
3227	F2
3228	F2
3229	F2
3230	G1
3231	G1
3232	G1
3233	G1
3234	G1
3236	E2
3237	F1
3238	F1
3239	E2
3240	F2
3241	F1
3242	F1
3243	F1
3244	F1
3246	F1
3247	E1
3248	F1
3249	E2
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3254	F2
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3263	F2
3264	F2
3265	F2
3267	F1
3268	F1
3270	F1
3271	G1
3272	F1
3273	F1
3274	F1
3275	F1
3276	G1
3277	G1
3280	F2
3281	F2
3282	F2
3283	F2
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3285	E1
3286	E1
3287	E1
3288	E1
3300	A5
3301	A5
3302	A4
3303	A4
3304	A5
3307	A4
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3319	B5
3330	B4
3331	B4
3332	B4
3333	B4
3334	B4
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3355	B4
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3439	F5
3440	F5
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3444	F4
3445	F4
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3448	F4
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3602	A1
3603	A1
3604	A1
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3606	A1
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3613	A1
3614	C1
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3622	B3
3623	B3
3624	B3
3625	B3
3626	B3
3627	B3
3629	A3
3631	B3
3632	A3
3633	B3
3634	B3
3635	A3
3636	B3
3637	B3
3638	A3
3639	A2
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3661	B1
3662	B2
3665	B2
3666	B1
3667	B1
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3669	B1
3670	B1
3671	B1
3672	B2
3676	A2
3677	A2
3679	A1
3680	A1
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3683	B2
3684	C2
3685	B2
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3701	C1
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3703	C1
3704	C1
3705	C1
3706	D1
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3710	C1
3711	C1
3712	D2
3713	D2
3714	C2
3715	C2
3716	C2
3717	C1
3718	C1
3719	D2
3720	D2
3721	D2
3722	D1
3723	D1
3724	D2
3725	D1
3726	E1
3727	E2
3728	D2
3729	D2
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3732	D1
3733	D1
3734	D1
3735	D1
3736	D1
3737	D1
3738	D2
3739	D2
3740	D2
3741	D2
3742	C1
3743	D1
3744	D2
3745	D2
3746	D1
3750	C2
3751	C2
3752	C2
3753	C2
3754	C2
3755	D2
3756	C2
3760	C1
3762	C1
3800	D3
3801	G4
3802	G4
3803	G4
3804	G4
3805	G4
3806	F4
3807	F4
3808	F4
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3812	F4
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3814	E4
3815	F4
3816	E4
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3818	F3
3819	E4
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3823	E3
3824	E4
3825	E3
3826	E3
3827	E3
3828	D4
3829	D4
3830	D3
3831	D3
3832	D3
3833	D3
4220	E1
4221	F1
4227	E2
4245	F1
4260	E2
4274	F1
4282	F2
4309	B4
4310	A4
4311	B4
4312	B4
4313	A3
4314	A3
4315	B4
4333	B4
4372	C4
4386	B3
4400	D4
4401	D5
4420	E4
4421	F4
4422	C4
4460	E5
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4463	E4
4464	E4
4465	E4
4474	D4
4474	D4
4478	D4
4490	E4
4562	C3
4563	B2
4564	B2
4566	F3
4594	C4
4631	A3
4700	C1
4702	C1
4714	C2
4717	C1
4718	C2
4727	E2
4741	D2
4744	D2
4752	C2
5220	F1
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5333	B4
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5358	C4
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5380	A4
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5420	E4
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5423	F4
5438	F5
5460	E5
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5826	E3
6220	E1
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6223	F1
6233	G1
6266	F1
6270	F1
6271	F1
6300	A4
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6305	A5
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6333	B4
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6463	D4
6464	F5
6465	G5
6530	G4
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6551	F3
6552	F3
6553	E3
6554	E3
6555	E3
6556	E2
6557	E2
6558	E2
6620	A3
6621	C3
6622	B3
6631	B3
6632	B3
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6661	B1
6662	A2
6663	A2
6664	A2
6665	A2
6666	A2
6667	A2
6714	C2
6715	C2
6725	E2
6726	D2
6742	C1
6801	G4
6828	E3
6829	D3
6830	E3
6831	D3
7220	F2
7221	E1
7222	F2
7223	F1
7225	F1
7226	E1
7227	E1
7233	G1
7270	F1
7271	G1
7285	E1
7357	B4
7358	B4
7367	C4
7369	C4
7370	C4
7380	A4
7400	D5
7401	D4
7402	D5
7403	D4
7404	D4
7420	E4
7421	E4
7422	E4
7423	E4
7424	F4
7425	E4
7426	F4
7427	F4
7434	F4
7435	F4
7438	F4
7460	D5
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7462	D5
7463	E5
7464	E5
7465	E5
7466	E5
7467	E5
7468	E4
7469	D4
7470	D4
7471	D4
7472	G5
7473	F5
7474	E4
7475	E4
7476	E4
7530	G4
7550	G3
7551	F3
7552	F3
7553	F3
7554	E3
7600	A1
7601	A1
7610	A1
7621	A3
7622	B3
7625	B3
7626	B3
7632	A3
7635	B3
7636	B3
7660	B1
7670	A2
7701	C1
7704	C1
7705	D2
7706	D1
7717	C1
7718	C2
7724	E1
7725	D2
7750	C2
7760	C1
7806	G4
7807	G4
7811	F4
7814	E4
7815	E3
7822	E3
7828	D4
7830	D3
9220	F1
9221	F2
9222	F1
9223	G1
9224	F2
9225	F2
9226	F1
9227	F2
9229	G2
9231	G1
9233	F2
9235	G2
9236	G3
9240	E1
9241	E2
9243	F2
9244	F1
9245	F1
9246	E2
9247	F2
9248	F1
9249	F2
9250	E1
9252	E1
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9256	E2
9257	F1
9258	F1
9259	F2
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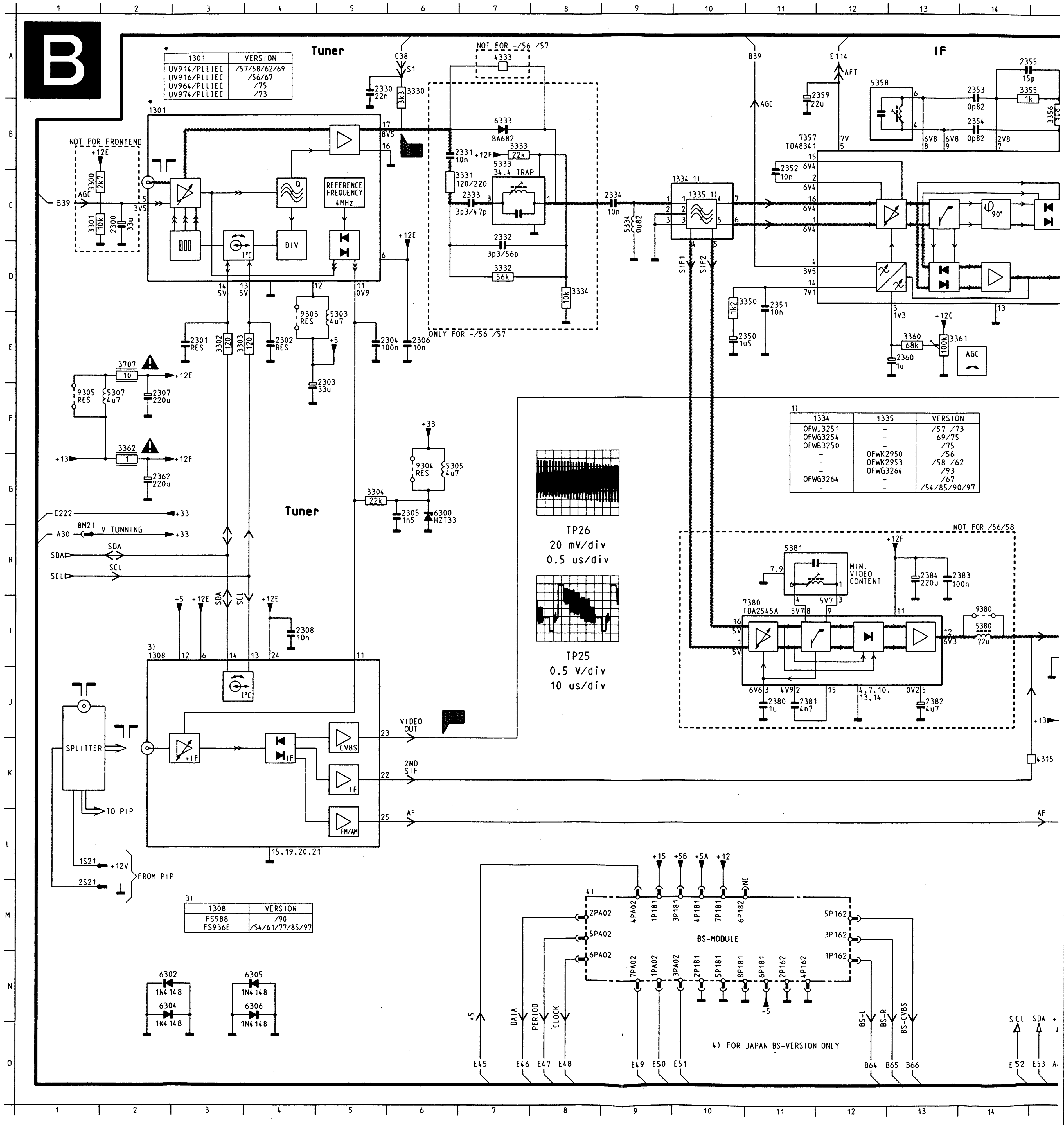
9264	E1
9265	E1
9267	E1
9268	E1
9270	E2
9271	E2
9273	E2
9274	F2
9275	G2
9300	C4
9306	A5
9307	A3
9308	B4
9309	B4
9310	B3
9311	B4
9312	C5
9314	C4
9315	B5
9359	B4
9360	B3
9361	C4
9362	C4
9364	C5
9367	C4
9368	C4
9369	C4
9371	C4
9372	C4
9374	D4
9380	A4
9383	B4
9387	A3
9388	A3
9389	B3
9390	A3
9391	C3
9392	C3
9393	B3
9400	D5
9401	D4
9402	D4
9403	D3
9404	D5
9407	D5
9420	D4
9421	C5
9422	C5
9423	C5
9424	D4
9425	D4
9436	G4
9460	D5
9461	D5
9464	E4
9472	E4
9473	F5
9474	E4
9475	E4
9479	D4
9497	F3
9534	F4
9550	E2
9551	E3
9552	E3
9553	C2
9554	G4
9555	D3
9556	D3
9557	D2
9558	D3
9559	D2
9560	C3
9561	C3
9562	C3
9563	C3
9564	C3
9565	E3
9566	E3
9567	E3
9568	E3
9569	E3
9570	E2
9571	E2
9572	E2
9573	D3
9574	C3
9575	E3
9576	C3
9577	C3
9578	C2
9579	C2
9580	C2
9581	E3
9582	D3
9583	D3
9584	G3
9585	G3
9586	D3
9587	C2
9588	C3
9589	D3
9590	C3
9591	C3
9592	C3
9593	C3
9594	C4
9598	F4
9600	A1
9615	B2
9622	A3
9660	A2
9663	A3
9664	C1
9665	A1
9666	B1
9667	B1
9669	B2
9673	B1
9675	B1
9686	A1
9687	A1
9706	D1
9707	D1
9708	D1
9709	D1
9710	D1
9723	D2
9724	E2
9725	D1
9730	D1
9737	D1
9738	D2
9739	D2
9741	E1
9743	E1
9810	E3
9811	D3
9814	F4

Tuner and IF / Sintonizador y FI



1301	VERSION
UV914/PLLIEC	/57/58/62/69
UV916/PLLIEC	/56/67
UV964/PLLIEC	/75
UV974/PLLIEC	/73

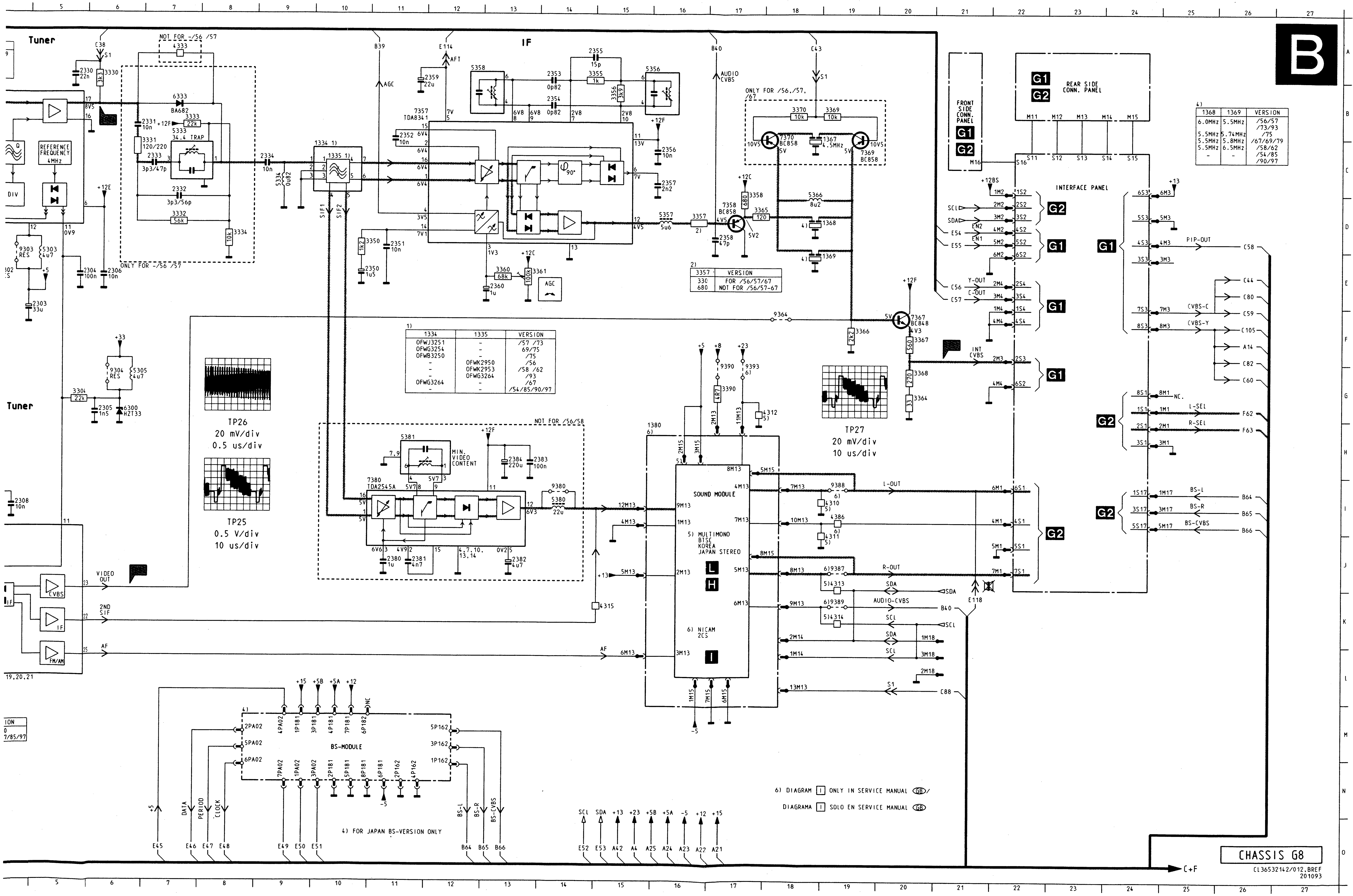
1)

1334	1335	VERSION
OFWJ3251	-	/57 /73
OFWG3254	-	69/75
OFWB3250	-	/75
-	OFWK2950	/56
-	OFWK2953	/58 /62
-	OFWG3264	/93
OFWG3264	-	/67
-	-	/54/85/90/97

3)

1308	VERSION
FS988	/90
FS936E	/54/61/77/85/97

nd IF / Sintonizador y FI

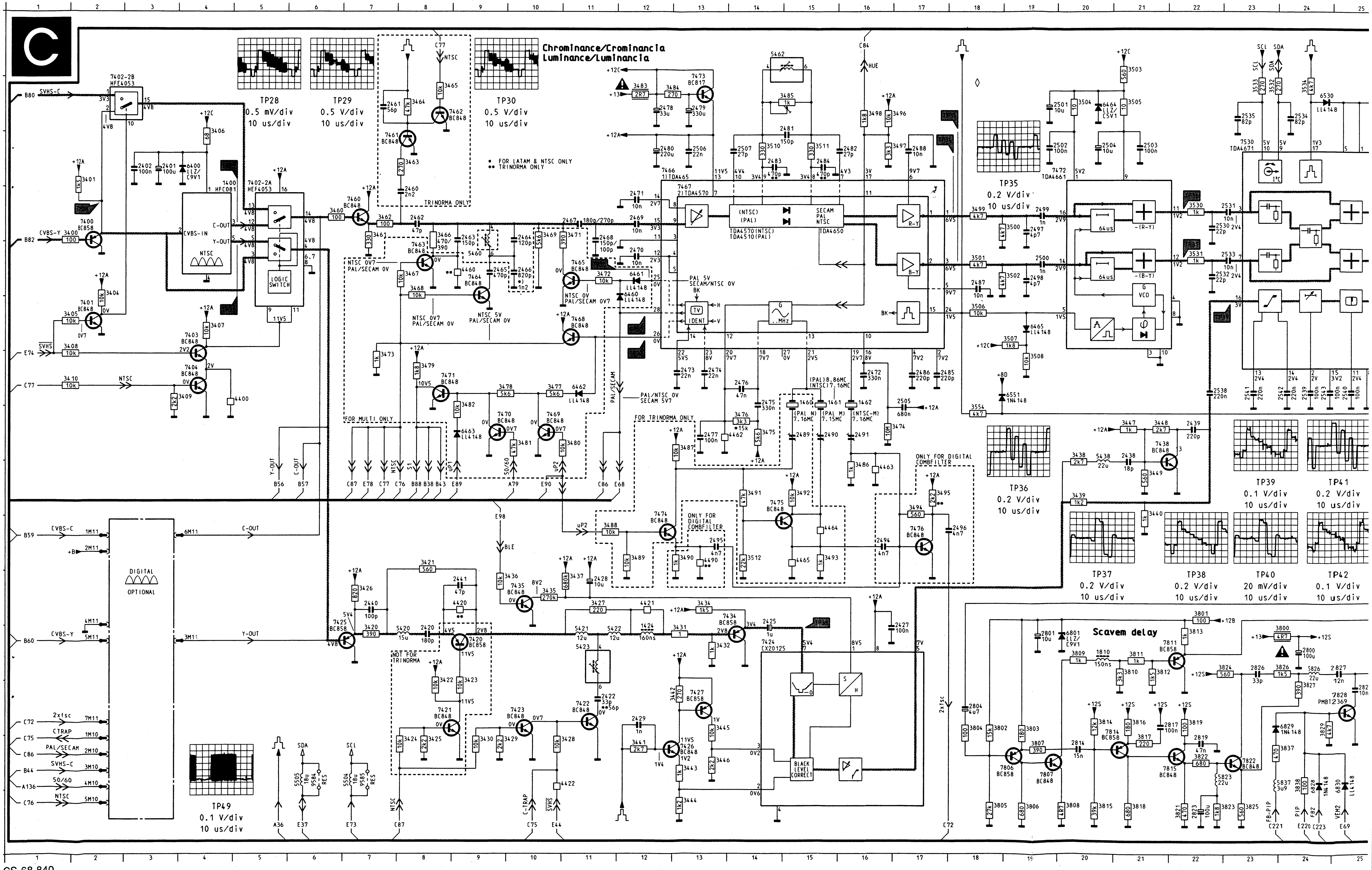

B
Tuner
IF
REFERENCE FREQUENCY 4MHz
DIV
NOT FOR -/56 /57
ONLY FOR -/56 /57
34.4 TRAP
BA682
7357 TDA8341
AGC
AFT
AUDIO CVBS
ONLY FOR /56./57./67
7370 BC858
7369 BC858
7358 BC858
7367 BC848
4.5MHz
2) 3357 VERSION
330 FOR /56/57/67
680 NOT FOR /56/57-67
1) 1334 1335 VERSION
OFWJ3251 - /57 /73
OFWG3254 - 69/75
OFWB3250 - /75
- OFWK2950 /56
- OFWK2953 /58 /62
- OFWG3264 /93
OFWG3264 - /67
- - /54/85/90/97
4) 1368 1369 VERSION
6.0MHz 5.5MHz /56/57 /73/93
5.5MHz 5.74MHz /75
5.5MHz 5.8MHz /67/69/79
5.5MHz 6.5MHz /58/62
- - /54/85 /90/97
TP26 20 mV/div 0.5 us/div
TP25 0.5 V/div 10 us/div
TP27 20 mV/div 10 us/div
NOT FOR /56/58
7380 TDA2545A
MIN. VIDEO CONTENT
SOUND MODULE
5) MULTIMONO BTSC KOREA JAPAN STEREO
6) NICAM 2CS
FRONT SIDE CONN. PANEL
REAR SIDE CONN. PANEL
INTERFACE PANEL
G1
G2
PIP-OUT
CVBS-C
CVBS-Y
L-SEL
R-SEL
BS-L
BS-R
BS-CVBS
L-OUT
R-OUT
SDA
SCL
AUDIO-CVBS
INT CVBS
Y-OUT
C-OUT
VIDEO OUT
2ND SIF
AF
BS-MODULE
4) FOR JAPAN BS-VERSION ONLY
DATA
PERIOD
CLOCK
6) DIAGRAM I ONLY IN SERVICE MANUAL GB/
DIAGRAMA I SOLO EN SERVICE MANUAL GB
C+F

CHASSIS G8

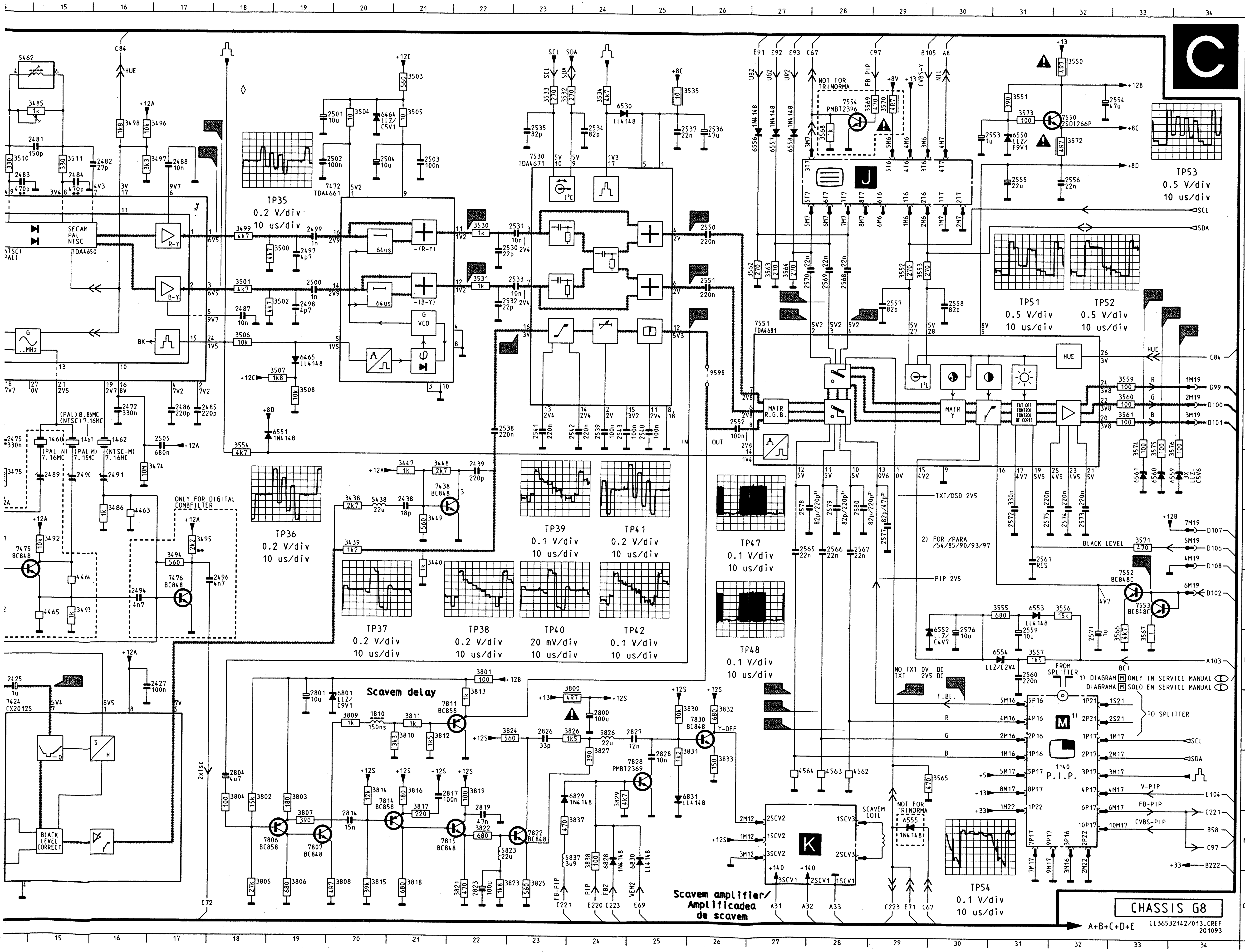
CL 36532142/012.BREF
201093

TP25	J 6
TP26	B 6
TP27	F21
1301	B 2
1308	I 2
1334	C 9
1335	C10
1367	C18
1368	D18
1369	E18
1380	H15
2300	C 2
2301	E 3
2302	E 4
2303	F 5
2304	E 5
2305	G 6
2306	E 6
2307	F 2
2308	I 4
2330	A 5
2331	B 6
2332	C 7
2333	C 7
2334	C 9
2350	E10
2351	D11
2352	C11
2353	A14
2354	B14
2355	A14
2356	C16
2357	C16
2358	D17
2359	B11
2360	E13
2362	G 2
2380	J11
2381	J11
2382	J13
2383	H13
2384	H13
3300	C 1
3301	C 1
3302	E 3
3303	E 3
3304	G 5
3330	A 6
3331	C 6
3332	D 7
3333	B 7
3334	D 8
3350	D10
3355	A14
3356	B15
3357	D16
3358	C17
3360	E13
3361	E13
3362	F 2
3364	G20
3365	D17
3366	F19
3367	F20
3368	G20
3369	B19
3370	B18
3390	G17
3707	E 2
4310	I19
4311	J19
4312	G17
4313	J19
4314	K19
4315	K15
4333	A 7
4386	I19
5303	E 5
5305	G 6
5307	F 2
5333	B 7
5334	C 9
5356	A15
5357	D16
5358	A12
5366	D18
5380	I14
5381	H11
6300	G 6
6302	N 2
6304	N 2
6305	N 4
6306	N 4
6333	B 7
7357	B12
7358	D17
7367	F20
7369	C19
7370	C18
7380	I10
9303	E 4
9304	G 6
9305	F 1
9364	F18
9380	I14
9387	J19
9388	I19
9389	K19
9390	G17
9393	G17

Chroma / Croma


C
Chrominance/Crominancia
Luminance/Luminancia
TP28
0.5 mV/div
10 us/div
TP29
0.5 V/div
10 us/div
TP30
0.5 V/div
10 us/div
TP35
0.2 V/div
10 us/div
TP36
0.2 V/div
10 us/div
TP37
0.2 V/div
10 us/div
TP38
0.2 V/div
10 us/div
TP39
0.1 V/div
10 us/div
TP40
20 mV/div
10 us/div
TP41
0.2 V/div
10 us/div
TP42
0.1 V/div
10 us/div
TP49
0.1 V/div
10 us/div
* FOR LATAM & NTSC ONLY
** TRINORMA ONLY
TRINORMA ONLY
FOR MULTI ONLY
FOR TRINORMA ONLY
ONLY FOR DIGITAL COMBFILTER
NOT FOR TRINORMA
7402-2B HEF4053
7402-2A HEF4053
1400 HFC081
CVBS-IN
C-OUT
Y-OUT
NTSC
LOGIC SWITCH
7466 1) TDA4650
7467 2) TDA4570
TDA4570 (NTSC)
TDA4510 (PAL)
(NTSC) (PAL)
SECAM PAL NTSC
TDA4650
R-Y
B-Y
TV IDENT
BK
PAL 5V SECAM/NTSC 0V
PAL/NTSC 0V SECAM 5V7
NTSC 0V7 PAL/SECAM 0V
NTSC 5V PAL/SECAM 0V
NTSC 0V PAL/SECAM 0V7
(PAL) 8.86MC (NTSC) 7.16MC
(PAL N) 7.16MC
(PAL M) 7.15MC
(NTSC-M) 7.16MC
7472 TDA4661
64us
-(R-Y)
-(B-Y)
VCO
7530 TDA4671
DIGITAL OPTIONAL
7424 CX20125
BLACK LEVEL CORRECT
S H
Scavem delay
B80 SVHS-C
B82 CVBS-Y
E74 SVHS
C77
B56 Y-OUT
B57 C-OUT
C87 E78 C77 C76 B88 B38 B43 E89
A79 50/60
E90 uP2
C86 E68 PAL/SECAM
E98 BLE
C84 HUE
B59 CVBS-C
B60 CVBS-Y
C72 2xfsc
C75 CTRAP
C86 PAL/SECAM
B44 SVHS-C
A136 50/60
C76 NTSC
A36
E37 SDA
E73 SCL
C87 NTSC
C75 C-TRAP
E44 SVHS
C72 2xfsc
C221 FB-PIP
E220 PIP
C223 FB2
E69 VEH2
SCL SDA
+12A +12C +13 +12S +8D
7400 BC858
7401 BC848
7403 BC848
7404 BC848
7460 BC848
7461 BC848
7462 BC848
7463 BC848
7464 BC848
7465 BC848
7468 BC848
7469 BC848
7470 BC848
7471 BC848
7473 BC817
7474 BC848
7475 BC848
7476 BC848
7425 BC858
7420 BC858
7421 BC848
7423 BC848
7422 BC848
7435 BC848
7434 BC858
7426 BC848
7427 BC858
7438 BC858
7806 BC858
7807 BC848
7811 BC858
7814 BC858
7815 BC848
7822 BC848
7828 PMBT2369
5462
5460
5420
5421
5422
5423
5438
1424 160ns
1810 150ns
1460
1461
1462
6400 LLZ C9V1
6461 LL4148
6460 LL4148
6462 LL4148
6463 LL4148
6464 LLZ C5V1
6465 LL4148
6530 LL4148
6551 1N4148
6801 LLZ C9V1
6829 1N4148
6830
5505 18u
5504 18u
9584 RES
9585 RES

Chroma / Croma

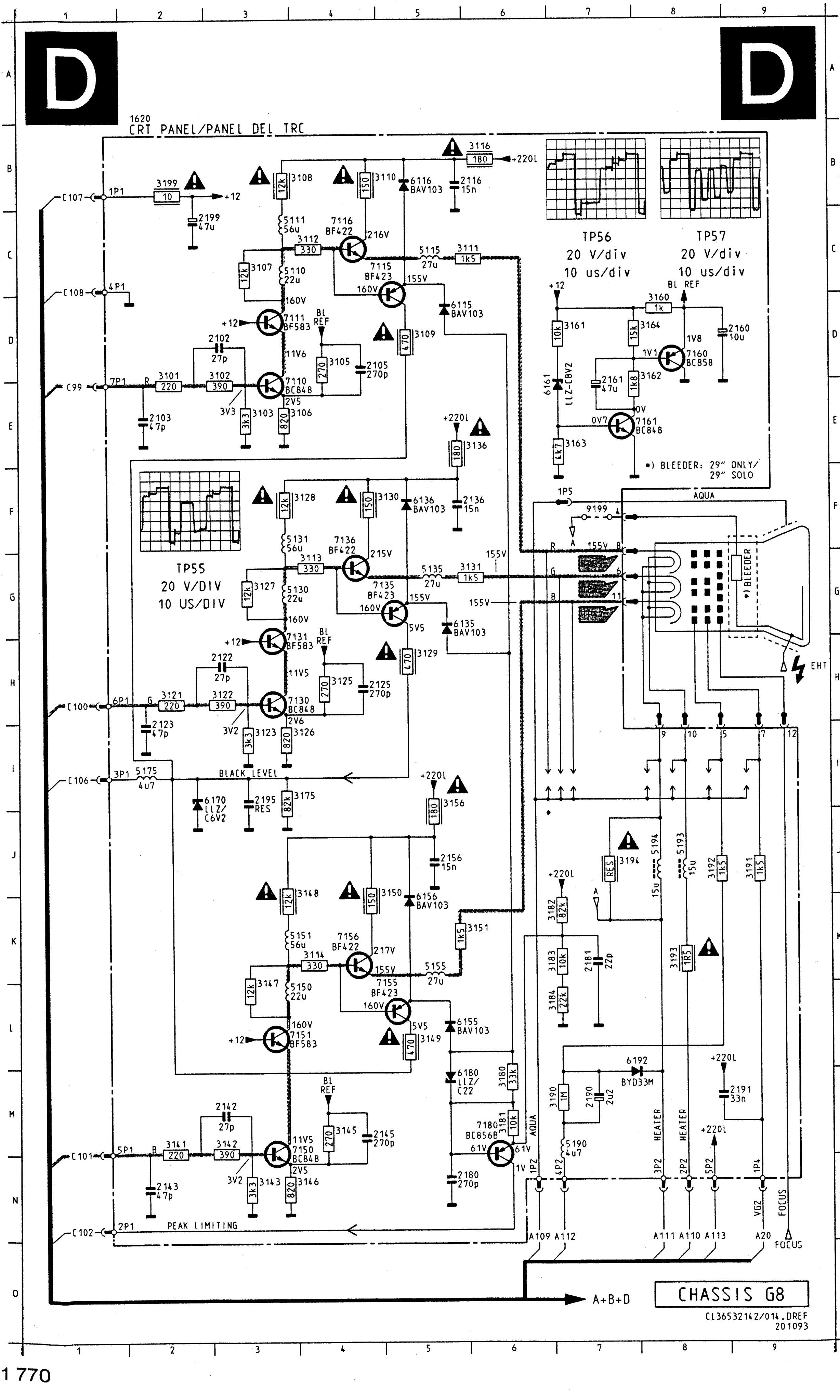

C
SECAM PAL NTSC
TDA4650
R-Y
B-Y
5462
HUE
TP35
0.2 V/div
10 us/div
TDA4661
7472
64us
-(R-Y)
-(B-Y)
VCO
TDA4671
7530
SCL
SDA
I²C
7551
TDA4681
J
MATR R.G.B.
MATR Y
CUT OFF CONTROL CONTROL DE CORTE
HUE
TP51
0.5 V/div
10 us/div
TP52
0.5 V/div
10 us/div
TP53
0.5 V/div
10 us/div
NOT FOR TRINORMA
7554 PMBT2396
7550 2SD1266P
TP36
0.2 V/div
10 us/div
TP37
0.2 V/div
10 us/div
TP38
0.2 V/div
10 us/div
TP39
0.1 V/div
10 us/div
TP40
20 mV/div
10 us/div
TP41
0.2 V/div
10 us/div
TP42
0.1 V/div
10 us/div
TP47
0.1 V/div
10 us/div
TP48
0.1 V/div
10 us/div
TP54
0.1 V/div
10 us/div
(PAL) 8.86MC
(NTSC) 7.16MC
ONLY FOR DIGITAL COMBFILTER
Scavem delay
Scavem amplifier/ Amplificadea de scavem
K
SCAVEM COIL
M
1140 P.I.P.
FROM SPLITTER
TO SPLITTER
1) DIAGRAM M ONLY IN SERVICE MANUAL
DIAGRAMA M SOLO EN SERVICE MANUAL
2) FOR /PARA /54/85/90/93/97
BLACK LEVEL
TXT/OSD 2V5
PIP 2V5
NO TXT TXT
BLACK LEVEL CORRECT
V-PIP
FB-PIP
CVBS-PIP
7806 BC858
7807 BC848
7811 BC858
7814 BC858
7815 BC848
7822 BC848
7828 PMBT2369
7830 BC848
7438 BC848
7475 BC848
7476 BC848
7552 BC848C
7553 BC848C
7424 CX20125
IN
OUT
Y-OFF

CHASSIS G8

A+B+C+D+E

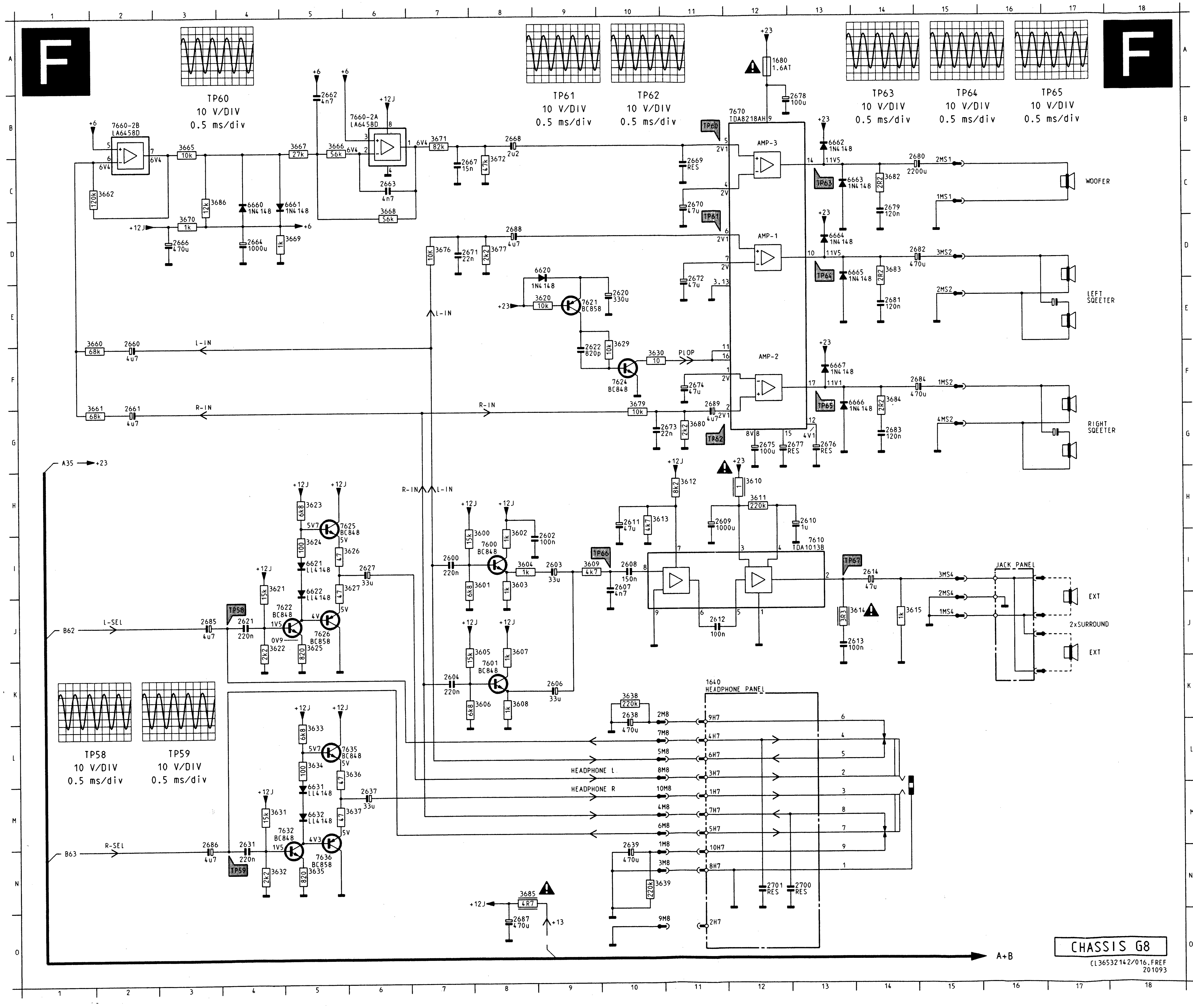
CL 36532142/013.CREF 201093

TP28	D 2	2560	K31	3512	J14	6830	N25
TP29	C 4	2561	I31	3530	D22	6831	M25
TP30	F 4	2565	I27	3531	E22	7400	D 2
TP31	E11	2566	I28	3532	B23	7401	F 2
TP32	F12	2567	I28	3533	B23	7402	B 2
TP33	G12	2568	E28	3534	B24	7402	C 5
TP34	C17	2569	E28	3535	B25	7403	F 4
TP35	B18	2570	E27	3550	A32	7404	G 4
TP36	D22	2571	K32	3551	B31	7420	L 9
TP37	E22	2572	I31	3552	E29	7421	M 8
TP38	K15	2573	I32	3553	E29	7422	M11
TP39	F22	2574	I32	3554	H18	7423	M10
TP40	D26	2575	I31	3555	J31	7424	L14
TP41	E26	2576	K30	3556	J32	7425	L 7
TP42	E26	2577	I29	3557	K31	7426	N13
TP43	K30	2578	I27	3559	F33	7427	M13
TP44	L27	2579	I28	3560	G33	7434	K14
TP45	L27	2580	I28	3561	G33	7435	K10
TP46	L27	2800	L24	3562	E27	7438	H22
TP47	E28	2801	L19	3563	E27	7460	D 7
TP48	E27	2804	M18	3564	E27	7461	C 8
TP49	E27	2814	N20	3565	M30	7462	B 8
TP50	L29	2817	M21	3566	K33	7463	E 8
TP51	F34	2819	N22	3567	K33	7464	E 9
TP52	E33	2823	O22	3568	B28	7465	E11
TP53	E33	2826	L23	3569	B28	7466	C12
TP54	I33	2827	L25	3570	B29	7467	D13
1140	M32	2828	M25	3571	I33	7468	F11
1400	C 5	3400	D 1	3572	B32	7469	H10
1424	L12	3401	C 2	3573	B31	7470	H 9
1460	G15	3404	E 2	3574	G33	7471	G 8
1461	G15	3405	F 1	3575	G33	7472	C20
1462	G16	3406	B 4	3576	G34	7473	B13
1810	L20	3407	F 4	3800	L24	7474	J12
2401	C 3	3408	F 1	3801	K22	7475	I15
2402	C 3	3409	G 3	3802	M18	7476	J17
2420	L 8	3410	G 1	3803	M19	7530	C23
2422	M11	3420	L 7	3804	M18	7550	B32
2425	K14	3421	J 8	3805	O18	7551	E27
2427	L17	3422	L 8	3806	O19	7552	J33
2428	K11	3423	L 9	3807	N19	7553	J33
2429	M12	3424	N 8	3808	O20	7554	B28
2438	H21	3425	N 8	3809	L20	7806	N19
2439	H22	3426	K 7	3810	L21	7807	N19
2440	K 7	3427	K11	3811	L21	7811	L22
2441	K 9	3428	N10	3812	L21	7814	M21
2460	D 8	3429	N 9	3813	L22	7815	N22
2461	B 7	3430	N 9	3814	M20	7822	N23
2462	D 8	3431	L13	3815	O20	7828	M25
2463	D 9	3432	L13	3816	M21	7830	L26
2464	D10	3434	K13	3817	N21	9584	N 6
2465	E 9	3435	K10	3818	O21	9585	N 7
2466	E10	3436	K 9	3819	M22	9598	F26
2467	D11	3437	K11	3821	O22		
2468	D11	3438	H20	3822	N22		
2469	D12	3439	I20	3823	O22		
2470	E12	3440	I21	3824	L23		
2471	D12	3441	N12	3825	O23		
2472	G16	3442	M13	3826	L24		
2473	G13	3443	N13	3827	M24		
2474	G13	3444	O13	3829	M24		
2475	G14	3445	M13	3830	L25		
2476	G14	3446	N13	3831	M25		
2477	H13	3447	H21	3832	L26		
2478	B12	3448	H21	3833	M26		
2479	B13	3449	I21	3837	N24		
2480	C12	3460	D 6	3838	N24		
2481	B15	3461	D 7	4400	G 5		
2482	C16	3462	D 7	4420	K 9		
2483	C14	3463	C 8	4421	K12		
2484	C15	3464	B 8	4422	N10		
2485	G17	3465	B 8	4460	E 9		
2486	G17	3466	D 8	4462	H14		
2487	E18	3467	E 8	4463	I16		
2488	C17	3468	E 8	4464	J15		
2489	H15	3469	D10	4465	J15		
2490	H15	3471	D11	4490	J13		
2491	H16	3472	E11	4562	M28		
2494	J16	3473	G 7	4563	M28		
2495	J13	3474	H16	4564	M27		
2496	J18	3475	H14	5420	L 8		
2497	D19	3476	H14	5421	L11		
2498	E19	3477	G10	5422	L11		
2499	D19	3478	G 9	5423	L11		
2500	E19	3479	G 8	5438	H20		
2501	B19	3480	H11	5460	E 9		
2502	C19	3481	H10	5462	A14		
2503	C21	3482	G 9	5462	* *		
2504	C20	3483	B12	5504	N 7		
2505	G17	3484	B12	5505	N 6		
2506	C13	3485	B15	5823	N22		
2507	C14	3486	I16	5826	L24		
2530	D22	3487	H13	5837	N23		
2531	D23	3488	J11	6400	C 4		
2532	E22	3489	J12	6460	F12		
2533	E23	3490	J13	6461	E12		
2534	B24	3491	I14	6462	G11		
2535	B23	3492	I15	6463	H 9		
2536	B26	3493	J15	6464	B20		
2537	B25	3494	I17	6465	F19		
2538	G22	3495	I17	6530	B24		
2539	G24	3496	B16	6550	B31		
2540	G25	3497	C16	6551	G19		
2541	G23	3498	B16	6552	K30		
2542	G24	3499	D18	6553	J31		
2543	G24	3500	D19	6554	K31		
2550	D26	3501	E18	6555	N29		
2551	E26	3502	E19	6556	B27		
2552	G26	3503	A21	6557	B27		
2553	B30	3504	B20	6558	B27		
2554	B32	3505	B21	6559	H34		
2555	C31	3506	F18	6560	H33		
2556	C32	3507	F19	6561	H33		
2557	E29	3508	G19	6801	L20		
2558	E30	3510	C14	6828	N24		
2559	K31	3511	C15	6829	M24		


D
1620
CRT PANEL/PANEL DEL TRC
C107
1P1
3199
10
+12
2199
47u
C108
4P1
C99
7P1
R
3101
220
3102
390
2102
27p
2103
47p
3V3
3103
3k3
3106
820
7110
BC848
2V5
7111
BF583
11V6
160V
3107
12k
5110
22u
5111
56u
3108
12k
3112
330
7116
BF422
216V
3110
150
6116
BAV103
3116
180
+220L
2116
15n
5115
27u
3111
1k5
7115
BF423
155V
6115
BAV103
3109
470
BL REF
3105
270
2105
270p
TP56
20 V/div
10 us/div
TP57
20 V/div
10 us/div
+12
BL REF
3160
1k
3161
10k
3164
15k
2160
10u
1V8
1V1
7160
BC858
6161
LLZ-C8V2
2161
47u
3162
1k8
0V
0V7
7161
BC848
3163
4k7
*) BLEEDER: 29" ONLY/ 29" SOLO
+220L
3136
180
TP55
20 V/DIV
10 US/DIV
3128
12k
3130
150
6136
BAV103
2136
15n
5131
56u
7136
BF422
215V
3113
330
5135
27u
3131
1k5
155V
3127
12k
5130
22u
7135
BF423
160V
155V
6135
BAV103
5V5
3129
470
7131
BF583
BL REF
2122
27p
11V5
3125
270
2125
270p
C100
6P1
G
3121
220
3122
390
7130
BC848
2V6
2123
47p
3V2
3123
3k3
3126
820
C106
3P1
5175
4u7
BLACK LEVEL
6170
LLZ/C6V2
2195
RES
3175
82k
+220L
3156
180
2156
15n
3148
12k
3150
150
6156
BAV103
3151
1k5
5151
56u
7156
BF422
217V
3114
330
155V
5155
27u
3147
12k
5150
22u
7155
BF423
160V
5V5
6155
BAV103
3149
470
160V
7151
BF583
6180
LLZ/C22
3180
33k
BL REF
2142
27p
3145
270
2145
270p
11V5
7150
BC848
3181
10k
7180
BC856B
61V
61V
1V
AQUA
C101
5P1
B
3141
220
3142
390
2V5
3143
3k3
3146
820
2143
47p
3V2
2180
270p
C102
2P1
PEAK LIMITING
1P5
AQUA
9199
A
R
155V
G
B
155V
BLEEDER
EHT
9
10
5
7
12
3194
RES
5194
15u
5193
15u
3192
1k5
3191
1k5
+220L
3182
82k
3183
10k
2181
22p
3184
22k
3193
1R5
6192
BYD33M
+220L
2191
33n
3190
1M
2190
2u2
5190
4u7
HEATER
HEATER
+220L
1P2
4P2
3P2
2P2
5P2
1P4
VG2
FOCUS
A109
A112
A111
A110
A113
A20
FOCUS
A+B+D
CHASSIS G8
CL36532142/014.DREF
201093

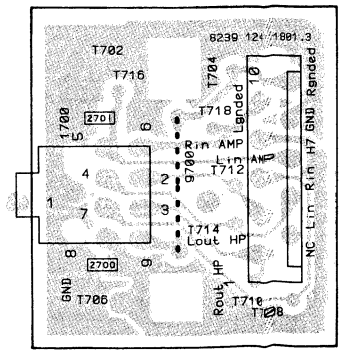
TP55	G 7
TP56	G 7
TP57	G 7
1620	A 2
2102	D 3
2103	E 2
2105	D 4
2116	B 5
2122	H 3
2123	I 2
2125	H 4
2136	F 5
2142	M 3
2143	N 2
2145	M 4
2156	J 5
2160	D 9
2161	E 7
2180	N 5
2181	K 7
2190	M 7
2191	M 8
2195	I 3
2199	C 2
3101	D 2
3102	D 3
3103	E 3
3105	D 4
3106	E 3
3107	C 3
3108	B 3
3109	D 5
3110	B 4
3111	C 6
3112	C 4
3113	G 4
3114	K 4
3116	B 6
3121	H 2
3122	H 3
3123	I 3
3125	H 4
3126	I 3
3127	G 3
3128	F 3
3129	H 5
3130	F 4
3131	G 6
3136	E 5
3141	M 2
3142	M 3
3143	N 3
3145	M 4
3146	N 3
3147	K 3
3148	J 3
3149	L 5
3150	J 4
3151	K 5
3156	I 5
3160	D 8
3161	D 7
3162	D 8
3163	E 7
3164	D 8
3175	I 3
3180	M 6
3181	M 6
3182	K 6
3183	K 6
3184	L 6
3190	M 6
3191	J 9
3192	J 8
3193	K 8
3194	J 7
3199	B 2
5110	C 3
5111	C 3
5115	C 5
5130	G 3
5131	F 3
5135	G 5
5150	L 3
5151	K 3
5155	K 5
5175	I 2
5190	M 7
5193	J 8
5194	J 8
6115	D 5
6116	B 5
6135	G 5
6136	F 5
6155	L 5
6156	K 5
6161	E 6
6170	I 2
6180	M 5
6192	L 7
7110	E 3
7111	D 3
7115	C 5
7116	C 4
7130	H 3
7131	H 3
7135	G 5
7136	F 4
7150	M 3
7151	L 3
7155	L 5
7156	K 4
7160	D 8
7161	E 7
7180	M 6
9199	F 7

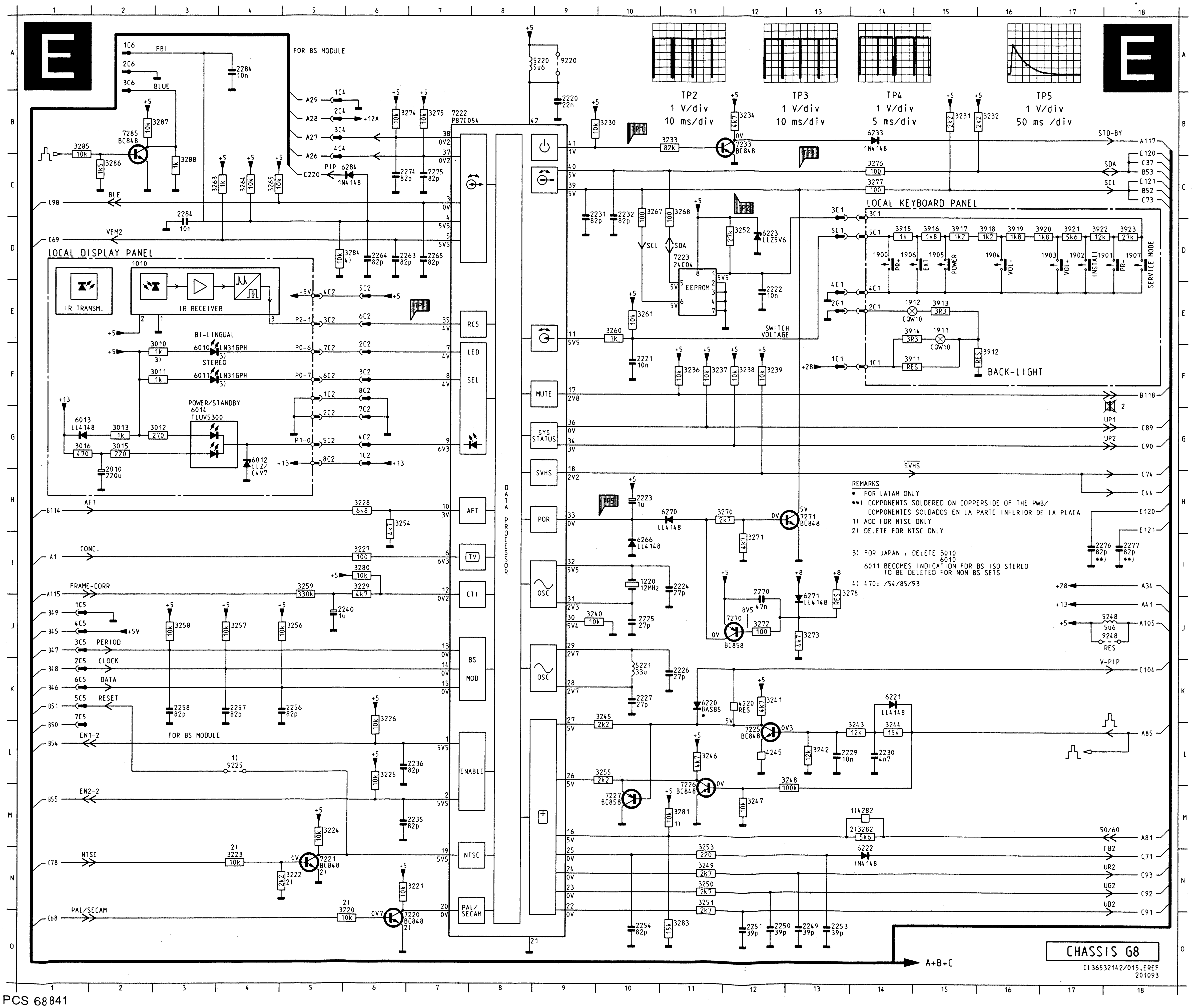
Sound and Headphone connection / Sonido y conexión auriculares


F
TP60
10 V/DIV
0.5 ms/div
TP61
10 V/DIV
0.5 ms/div
TP62
10 V/DIV
0.5 ms/div
TP63
10 V/DIV
0.5 ms/div
TP64
10 V/DIV
0.5 ms/div
TP65
10 V/DIV
0.5 ms/div
TP58
10 V/DIV
0.5 ms/div
TP59
10 V/DIV
0.5 ms/div
7660-2B
LA6458D
7660-2A
LA6458D
7670
TDA8218AH
AMP-3
AMP-1
AMP-2
1680
1.6AT
WOOFER
LEFT
SQEETER
RIGHT
SQEETER
L-IN
R-IN
PLOP
L-SEL
R-SEL
B62
B63
A35
+23
+12J
+6
7610
TDA1013B
JACK PANEL
EXT
2xSURROUND
1640
HEADPHONE PANEL
HEADPHONE L
HEADPHONE R
A+B
CHASSIS G8
CL 36532142/016.FREF
201093

TP58	J 4
TP59	N 4
TP60	B11
TP61	C11
TP62	G11
TP63	C13
TP64	D13
TP65	G13
TP66	I10
TP67	I13
1640	K11
1680	A12
2600	I 7
2602	I 9
2603	I 9
2604	K 7
2606	K 9
2607	I10
2608	I10
2609	H11
2610	H13
2611	H10
2612	J11
2613	J13
2614	I14
2620	E10
2621	J 4
2622	F 9
2627	I 6
2631	M 4
2637	M 6
2638	K10
2639	N10
2660	E 2
2661	G 2
2662	B 5
2663	C 6
2664	D 4
2666	D 3
2667	C 7
2668	B 8
2669	C11
2670	C11
2671	D 7
2672	E11
2673	G10
2674	F11
2675	G12
2676	G13
2677	G12
2678	B13
2679	C14
2680	C15
2681	E14
2682	D15
2683	G14
2684	F15
2685	J 3
2686	M 3
2687	O 8
2688	D 8
2689	G11
2700	N13
2701	N12
3600	H 8
3601	I 8
3602	H 8
3603	I 8
3604	I 8
3605	J 8
3606	K 8
3607	J 8
3608	K 8
3609	I 9
3610	H12
3611	H12
3612	H11
3613	H10
3614	J13
3615	J14
3620	E 9
3621	I 4
3622	J 4
3623	H 5
3624	I 5
3625	J 5
3626	I 5
3627	I 5
3629	E10
3630	F10
3631	M 4
3632	N 4
3633	L 5
3634	L 5
3635	N 5
3636	L 5
3637	M 5
3638	K10
3639	N10
3660	E 2
3661	G 2
3662	C 2
3665	B 3
3666	B 5
3667	B 5
3668	C 6
3669	D 5
3670	D 3
3671	B 7
3672	C 8
3676	D 7
3677	D 8
3679	G10
3680	G11
3682	C14
3683	D14
3684	F14
3685	N 8
3686	C 3
6620	D 9
6621	I 5
6622	I 5
6631	M 5
6632	M 5
6660	C 4
6661	C 5
6662	B13
6663	C13
6664	D13
6665	D13
6666	G13
6667	F13
7600	I 8
7601	K 8
7610	I13
7621	E 9
7622	J 5
7624	F10
7625	H 5
7626	J 5
7632	M 5
7635	L 5
7636	N 5
7660	B 2
7660	B 6
7670	B12

Headphone panel

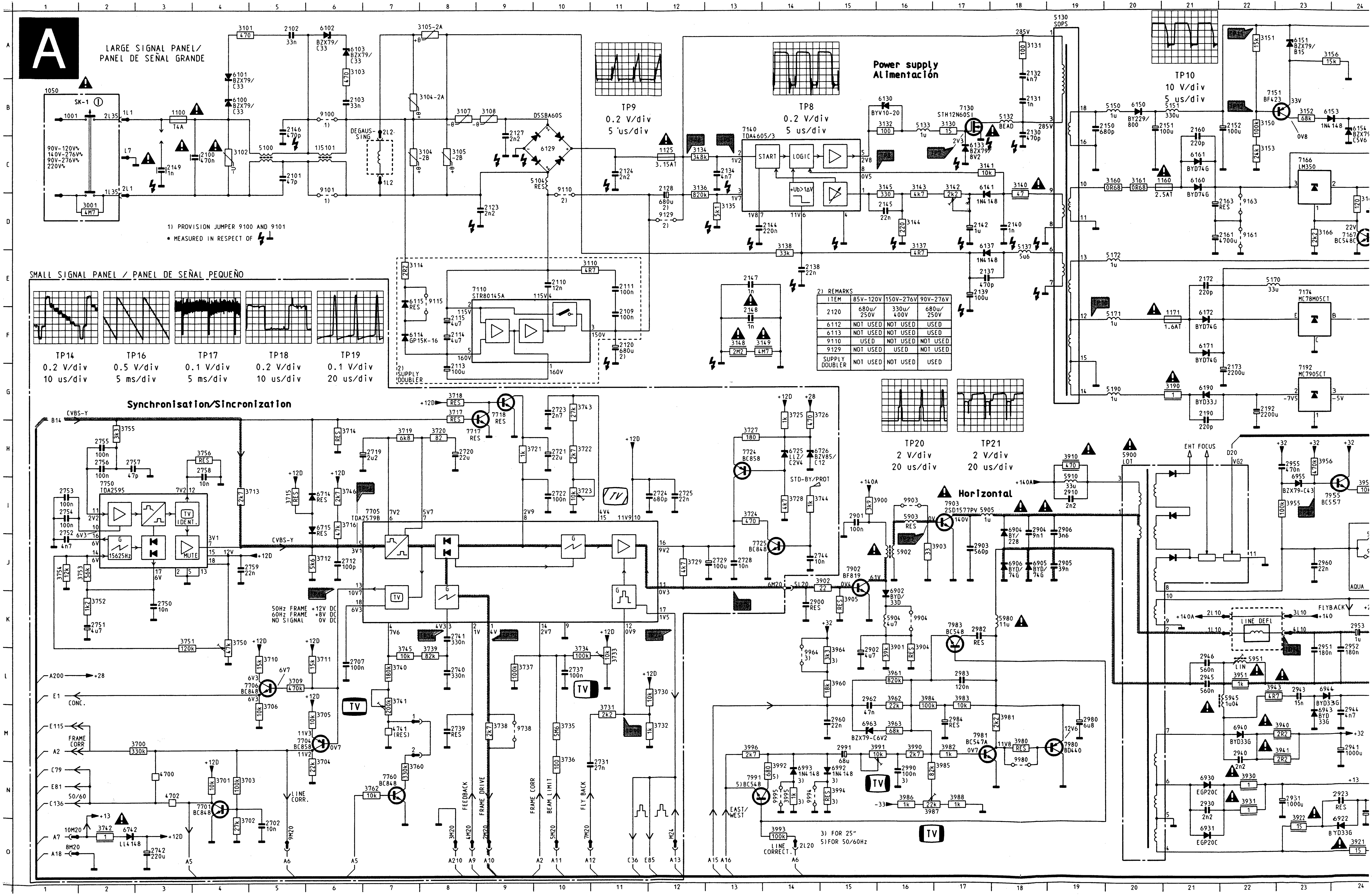

T702
T716
T704
T718
T712
T714
T706
T710
T708
2701
2700
1700
Rin AMP
Lin AMP
Lout HP
Rout HP
GND
NC
Lin
Rin
H7
GND
Randed
Landed


E
E
FOR BS MODULE
LOCAL DISPLAY PANEL
IR TRANSM.
IR RECEIVER
1010
BI-LINGUAL
STEREO
POWER/STANDBY
6014
TLUV5300
6010 LN31GPH
6011 LN31GPH
6013 LL4148
6012 LLZ/C4V7
7285 BC848
7222 P87C054
DATA PROCESSOR
RC5
LED
SEL
AFT
TV
CTI
BS MOD
ENABLE
NTSC
PAL/SECAM
MUTE
SYS STATUS
SVHS
POR
OSC
7223 24C04
EEPROM
SWITCH VOLTAGE
7233 BC848
7271 BC848
7270 BC858
7225 BC848
7226 BC848
7227 BC858
7221 BC848
7220 BC848
1220 12MHz
TP1
TP2
TP3
TP4
TP5
TP6
TP2 1 V/div 10 ms/div
TP3 1 V/div 10 ms/div
TP4 1 V/div 5 ms/div
TP5 1 V/div 50 ms /div
STD-BY
SDA
SCL
LOCAL KEYBOARD PANEL
PR+
EXT
POWER
VOL-
VOL+
INSTALL
PR-
SERVICE MODE
CQW10
BACK-LIGHT
UP1
UP2
SVHS
V-PIP
50/60
FB2
UR2
UG2
UB2
AFT
CONC.
FRAME-CORR
PERIOD
CLOCK
DATA
RESET
EN1-2
EN2-2
NTSC
PAL/SECAM
BLE
VEM2
BLUE
FBI
PIP
A+B+C
CHASSIS G8
CL36532142/015.EREF
201093

REMARKS
- * FOR LATAM ONLY
- **) COMPONENTS SOLDERED ON COPPERSIDE OF THE PWB/
  COMPONENTES SOLDADOS EN LA PARTE INFERIOR DE LA PLACA
- 1) ADD FOR NTSC ONLY
- 2) DELETE FOR NTSC ONLY
- 3) FOR JAPAN : DELETE 3010
  6010
  6011 BECOMES INDICATION FOR BS ISO STEREO
  TO BE DELETED FOR NON BS SETS
- 4) 470: /54/85/93

TP1	B10
TP2	C12
TP3	B13
TP4	E 7
TP5	H10
1010	D 2
1220	I10
1900	D14
1901	D18
1902	D17
1903	D17
1904	D16
1905	D15
1906	D15
1907	D18
1911	E15
1912	E14
2010	H 2
2220	B 9
2221	F10
2222	E12
2223	H10
2224	I11
2225	J10
2226	K11
2227	K10
2229	L13
2230	L14
2231	D 9
2231	C 9
2232	D10
2235	M 7
2236	L 7
2240	J 5
2249	O13
2250	O12
2251	O12
2253	O13
2254	O10
2256	K 5
2257	K 4
2258	K 3
2263	D 6
2264	D 6
2265	D 7
2270	I12
2274	C 6
2275	C 7
2276	I17
2277	I18
2284	A 4
3010	F 3
3011	F 3
3012	G 3
3013	G 2
3015	G 2
3016	G 1
3220	O 6
3221	N 7
3222	N 5
3223	N 4
3224	M 5
3225	L 6
3226	K 6
3227	I 6
3228	H 6
3229	I 6
3230	B10
3231	B15
3232	B16
3233	B11
3234	B12
3236	F11
3237	F11
3238	F12
3239	F12
3240	J 9
3241	K12
3242	L13
3243	L14
3244	L14
3245	K10
3246	L11
3247	M12
3248	L13
3249	N11
3250	N11
3251	N11
3252	D12
3253	N11
3254	H 6
3255	L10
3256	J 5
3257	J 4
3258	J 3
3259	I 5
3260	E10
3261	E10
3263	C 4
3264	C 4
3265	C 5
3267	C10
3268	C11
3270	H12
3271	I12
3272	J12
3273	J13
3274	B 6
3275	B 7
3276	C14
3277	C14
3278	I13
3280	I 6
3281	M11
3282	M14
3283	O11
3284	D 5
3285	B 1
3286	C 2
3287	B 2
3288	C 3
3911	F14
3912	F16
3913	E15
3914	E14
3915	D14
3916	D15
3917	D15
3918	D16
3919	D16
3920	D17
3921	D17
3922	D17
3923	D18
4220	K12
4245	L12
4282	M14
5220	A 8
5221	K10
5248	J18
6010	F 3
6011	F 3
6012	G 4
6013	G 1
6014	G 3
6220	K11
6221	K14
6222	N14
6223	D12
6233	B14
6266	I10
6270	H11
6271	J13
6284	C 6
7220	O 6
7221	N 5
7222	B 7
7223	D11
7225	L12
7226	M11
7227	M10
7233	B12
7270	J12
7271	H13
7285	B 2
9220	A 9
9225	L 4
9248	J18

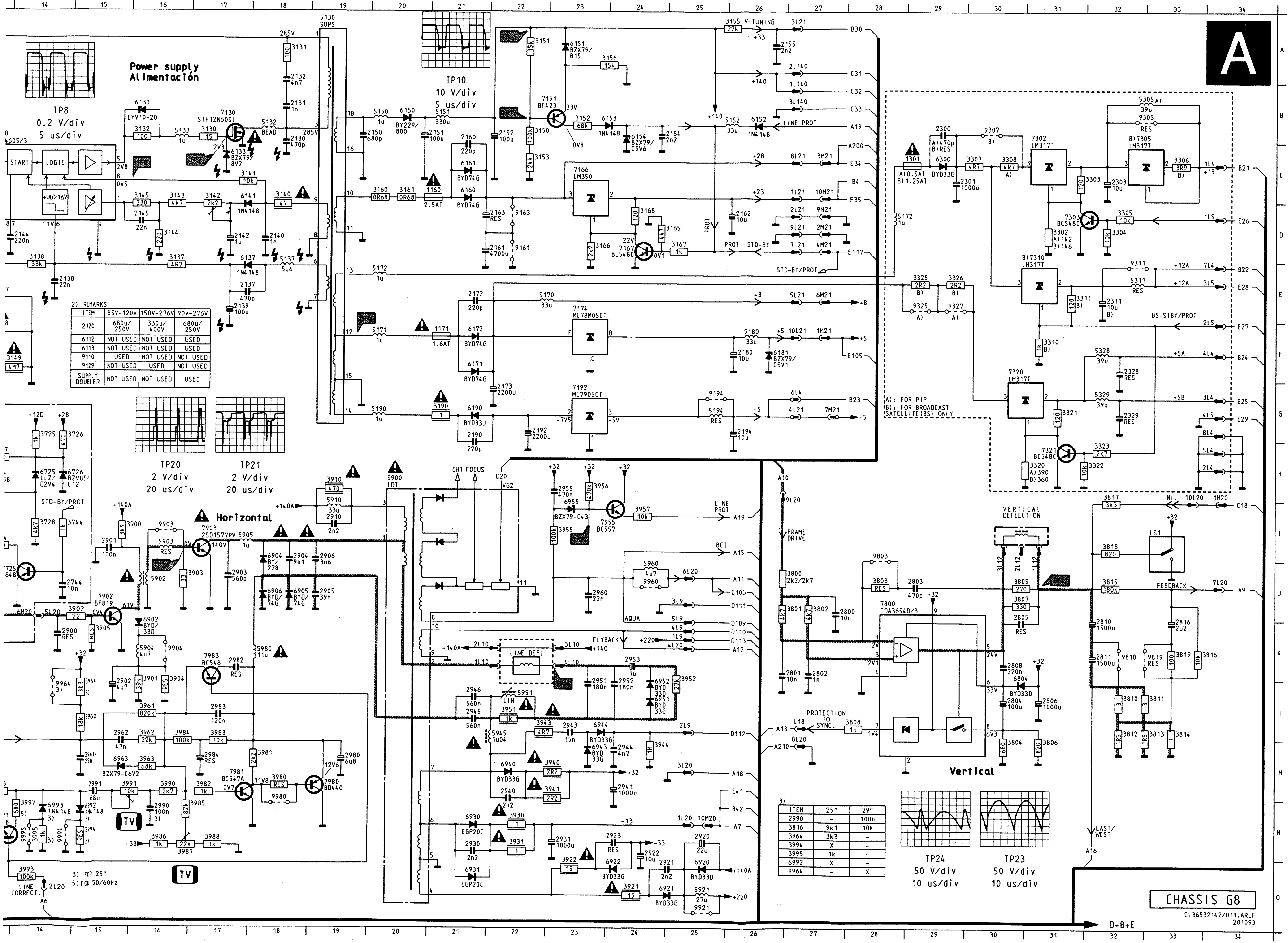
Power supply and synchronisation / Fuente de alimentación y sincronización


A
LARGE SIGNAL PANEL/
PANEL DE SEÑAL GRANDE
SK-1
90V-120V∿
140V-276V∿
90V-276V∿
220V∿
1) PROVISION JUMPER 9100 AND 9101
• MEASURED IN RESPECT OF
DEGAUSSING
D5SBA60S
7110 STR80145A
2) SUPPLY DOUBLER
7140 TDA4605/3
START
LOGIC
TP9 0.2 V/div 5 us/div
TP8 0.2 V/div 5 us/div
Power supply
Alimentación
7130 STH12N60SI
5130 SOPS
TP10 10 V/div 5 us/div
7166 LM350
7174 MC78M05CT
7192 MC7905CT
SMALL SIGNAL PANEL / PANEL DE SEÑAL PEQUEÑO
TP14 0.2 V/div 10 us/div
TP16 0.5 V/div 5 ms/div
TP17 0.1 V/div 5 ms/div
TP18 0.2 V/div 10 us/div
TP19 0.1 V/div 20 us/div
Synchronisation/Sincronization
CVBS-Y
7750 TDA2595
15625Hz
IDENT.
MUTE
7705 TDA2579B
50HZ FRAME +12V DC
60HZ FRAME +8V DC
NO SIGNAL 0V DC
STD-BY/PROT
TP20 2 V/div 20 us/div
TP21 2 V/div 20 us/div
Horizontal
7903 2SD1577PV
5900 LOT
EHT FOCUS
LINE DEFL
FLYBACK
AQUA
LINE CORR.
FEEDBACK
FRAME DRIVE
FRAME CORR
BEAM LIMIT
FLY BACK
FRAME CORR
EAST/WEST
LINE CORRECT.
3) FOR 25"
5) FOR 50/60Hz
TV

2) REMARKS

ITEM	85V-120V	150V-276V	90V-276V
2120	680u/ 250V	330u/ 400V	680u/ 250V
6112	NOT USED	NOT USED	USED
6113	NOT USED	NOT USED	USED
9110	USED	NOT USED	NOT USED
9129	NOT USED	USED	NOT USED
SUPPLY DOUBLER	NOT USED	NOT USED	USED

Fuente de alimentación y sincronización


A
Power supply
Alimentación
TP8
0.2 V/div
5 us/div
TP10
10 V/div
5 us/div
TP20
2 V/div
20 us/div
TP21
2 V/div
20 us/div
TP24
50 V/div
10 us/div
TP23
50 V/div
10 us/div
START
LOGIC
5130
SOPS
7130
STH12N60S1
6130
BYV10-20
5132
BEAD
285V
7151
BF423
7166
LM350
7167
BC548C
7174
MC78M05CT
7192
MC7905CT
1160
2.5AT
1171
1.6AT
3190
V-TUNING
LINE PROT
PROT
STD-BY
STD-BY/PROT
B30
C31
C32
C33
A19
A200
E34
B4
F35
E117
E105
B23
+140
+33
+28
+23
+8
+5
-5
7302
LM317T
7305
LM317T
7310
LM317T
7320
LM317T
7303
BC548C
7321
BC548C
1301
A) 0.5AT
B) 1.25AT
A): FOR PIP
B): FOR BROADCAST SATELLITE(BS) ONLY
BS-STBY/PROT
+12A
+5A
+5B
+15
B21
E26
B22
E28
E27
B24
B25
E29
Horizontal
7903
2SD1577PV
7902
BF819
7955
BC557
7983
BC548
7981
BC547A
7980
BD440
5900
LOT
EHT
FOCUS
VG2
LINE DEFL
FLYBACK
AQUA
+140A
+220
+13
-33
LINE CORRECT.
3) FOR 25"
5) FOR 50/60Hz
STD-BY/PROT
A19
A15
A11
C103
D111
D109
D110
D113
A12
D112
A18
E41
B42
A7
BCI
LINE PROT
FRAME DRIVE
PROTECTION TO SYNC.
A13
A210
A10
7800
TDA3654Q/3
Vertical
VERTICAL DEFLECTION
LS1
FEEDBACK
EAST/WEST
A16
A9
C18
A6
D+B+E
CHASSIS G8
CL 36532142/011.AREF
201093

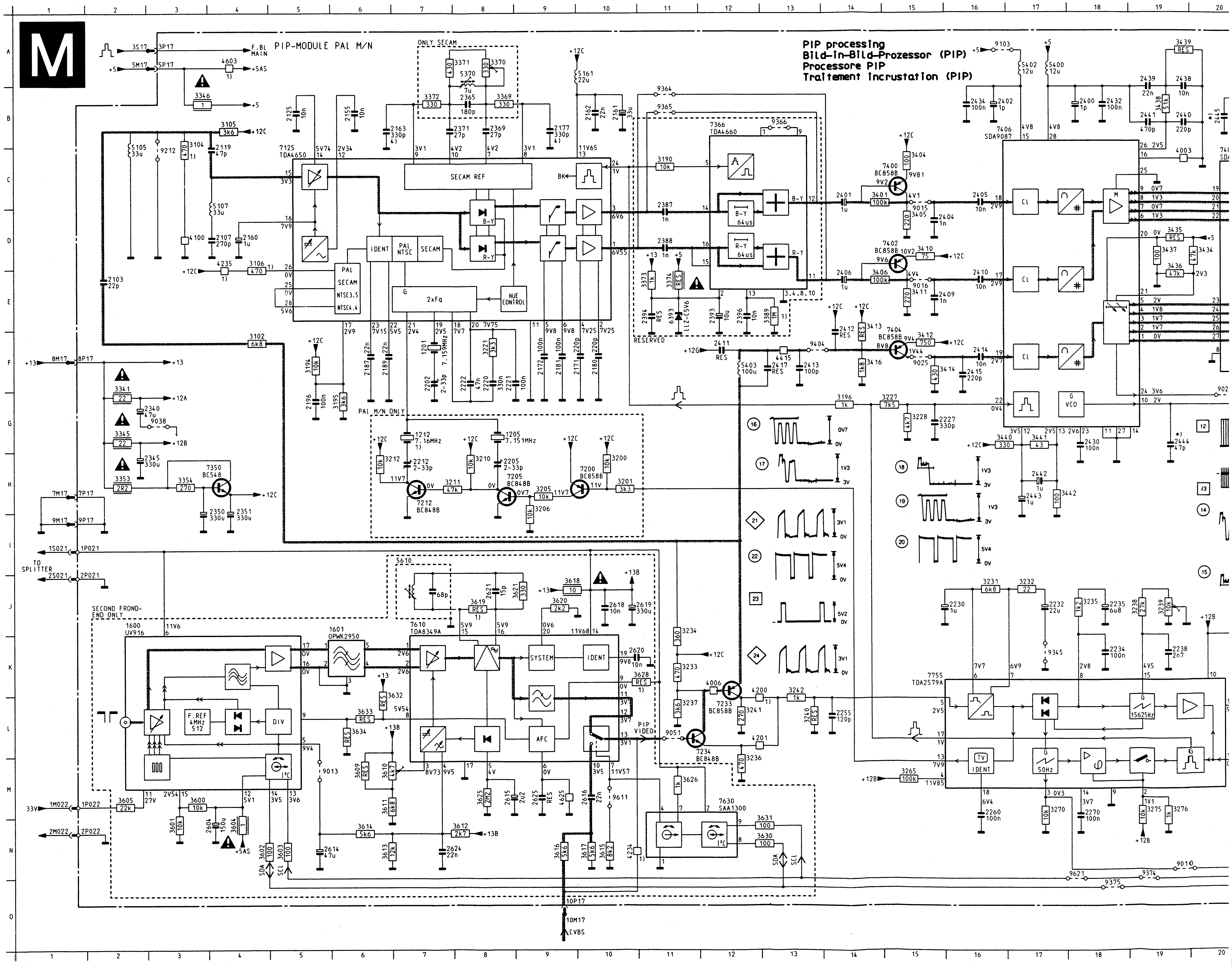
2) REMARKS

ITEM	85V-120V	150V-276V	90V-276V
2120	680u/ 250V	330u/ 400V	680u/ 250V
6112	NOT USED	NOT USED	USED
6113	NOT USED	NOT USED	USED
9110	USED	NOT USED	NOT USED
9129	NOT USED	USED	NOT USED
SUPPLY DOUBLER	NOT USED	NOT USED	USED

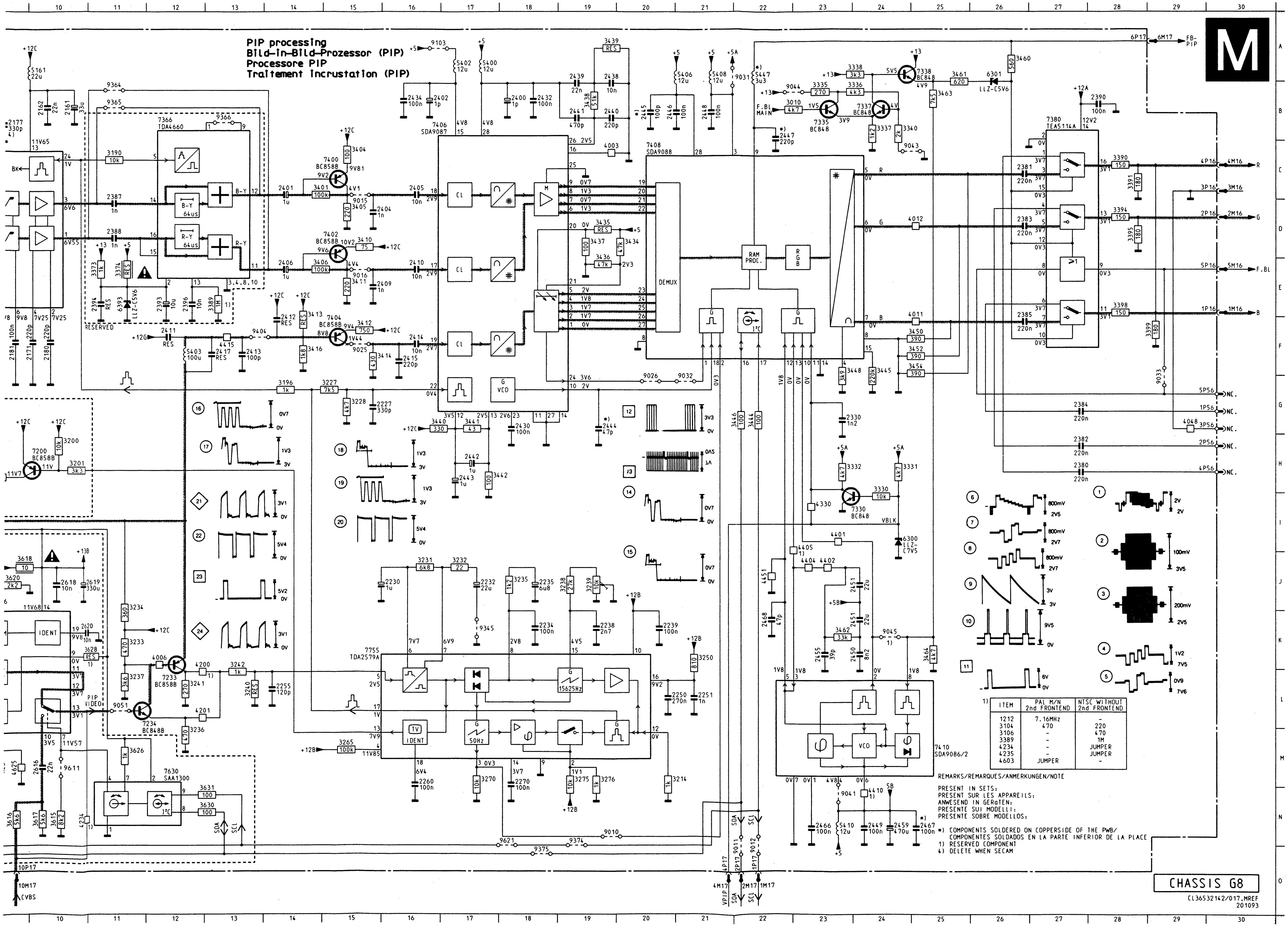
3)

ITEM	25"	29"
2990	-	100n
3816	9k1	10k
3964	3k3	-
3994	X	-
3995	1k	-
6992	X	-
9964	-	X

B)73	D30	2816	K33	3728	I14	5921	O25
B)73	B32	2900	K14	3729	J12	5945	L22
TP6	C12	2901	I15	3730	L12	5951	L22
TP7	C17	2902	L15	3731	M11	5960	J24
TP8	C16	2903	J17	3732	M12	5980	K18
TP9	C13	2904	J18	3733	L11	6100	B 4
TP10	E19	2905	J19	3734	L10	6101	A 4
TP11	A22	2906	J19	3735	M10	6102	A 6
TP12	B22	2910	I19	3736	M10	6103	A 6
TP14	I 7	2920	N25	3737	L 9	6114	F 7
TP15	K 6	2921	O25	3738	M 9	6115	E 7
TP16	K 8	2922	N24	3739	L 8	6129	C10
TP17	K 9	2923	N24	3740	L 7	6130	B16
TP18	K13	2930	N21	3741	L 7	6133	C17
TP19	M11	2931	N23	3742	O 2	6137	E17
TP20	K12	2940	M22	3743	G10	6141	C17
TP21	J16	2941	M24	3744	I14	6150	B20
TP22	I23	2943	L23	3745	L 7	6151	A23
TP23	J31	2944	M24	3746	I 6	6152	B26
TP24	L23	2945	L21	3750	K 4	6153	B23
1100	B 3	2946	L21	3751	K 3	6154	B24
1125	C12	2951	L23	3752	K 2	6160	C21
1160	C21	2952	L24	3753	J 2	6161	C21
1171	F21	2953	K24	3754	J 1	6171	F21
1301	C29	2955	H23	3755	H 2	6172	F21
140V	I17	2960	J23	3756	H 4	6181	F26
2100	C 4	2960	M15	3760	N 7	6190	G21
2101	C 5	2962	L15	3762	N 7	6300	C29
2102	A 5	2980	M19	3800	J27	6714	I 6
2103	B 6	2982	K17	3801	J27	6715	I 6
2109	F11	2983	L17	3802	J27	6725	H14
2110	E10	2984	M17	3803	J28	6726	H14
2111	E11	2990	N16	3804	L30	6742	O 2
2113	G 8	2991	M15	3805	J30	6804	L30
2114	F 8	3001	D 2	3806	L31	6902	K16
2115	F 8	3101	A 4	3807	J30	6904	J18
2120	F11	3102	C 4	3808	L28	6905	J18
2123	D 9	3103	A 6	3810	L32	6906	J18
2124	C11	3104	C 7	3811	L33	6920	O25
2127	C 9	3104	B 7	3812	L32	6921	O25
2128	C12	3105	A 8	3813	L33	6922	O24
2130	C18	3105	C 8	3814	L33	6930	N21
2131	B18	3107	B 8	3815	J32	6931	O21
2132	A18	3108	B 9	3816	K33	6940	M22
2134	C13	3110	E10	3817	H32	6943	M23
2137	E17	3114	E 7	3818	I32	6944	L23
2138	E14	3130	B17	3819	K33	6951	L24
2139	E17	3131	A18	3900	I15	6952	L24
2140	D18	3132	B16	3901	K16	6955	I23
2142	D17	3134	C12	3902	J15	6963	M15
2144	D14	3135	D13	3903	J16	6992	N15
2145	D16	3136	C12	3904	K16	6993	N14
2146	B 5	3137	E16	3905	K15	7110	E 8
2147	E13	3138	E14	3910	H19	7130	B17
2148	F13	3140	C18	3921	O24	7140	B13
2149	C 3	3141	C17	3922	O23	7151	B23
2150	B19	3142	C17	3930	N22	7166	C23
2151	B20	3143	C16	3931	N22	7167	D24
2152	B22	3144	D16	3940	M23	7174	E23
2154	B24	3145	C16	3941	M23	7192	G23
2155	A26	3148	F13	3943	L22	7302	B31
2160	B21	3149	F14	3944	M24	7303	D31
2161	D21	3150	B22	3951	L22	7320	F30
2162	D26	3151	A22	3952	K25	7321	H31
2163	D21	3152	B23	3955	I23	7701	N 4
2172	E21	3153	C22	3956	H23	7704	M 6
2173	G22	3155	A26	3957	I24	7705	I 7
2180	F26	3156	A23	3960	L15	7706	L 5
2190	G21	3160	C20	3961	L16	7717	H 9
2192	G22	3161	C20	3962	L16	7718	G 9
2194	G26	3165	D24	3963	M16	7724	H13
2300	B29	3166	D23	3964	L15	7725	J14
2301	C29	3167	D25	3980	M18	7750	I 2
2303	C32	3168	D24	3981	M18	7760	N 7
2311	E32	3190	G21	3982	M17	7800	J28
2328	F32	3302	D31	3983	L17	7902	J15
2329	G32	3303	C31	3984	L16	7903	I17
2702	O 5	3304	D32	3985	N17	7955	I24
2707	L 6	3305	D32	3986	N16	7980	M19
2712	J 6	3306	C33	3987	N16	7981	M17
2719	H 7	3307	C30	3988	N17	7983	K17
2720	H 8	3308	C30	3990	M16	7991	N13
2721	H10	3310	F31	3991	M16	9100	B 6
2722	I10	3311	E31	3992	N14	9101	D 6
2723	G10	3320	H31	3993	O14	9110	D10
2724	I12	3321	G31	3994	N15	9115	E 8
2725	I12	3322	H32	3995	N14	9129	D12
2728	J13	3323	H32	3996	M13	9161	D22
2729	J13	3325	E29	4741	M 7	9163	D22
2731	N11	3326	E29	5100	C 5	9194	G25
2737	L10	3700	M 3	5101	C 6	9305	B32
2739	M 8	3701	N 4	5104	C10	9307	B30
2740	L 8	3702	O 4	5130	A19	9311	E32
2741	K 8	3703	N 4	5132	B18	9325	E29
2742	O 3	3704	M 6	5133	B16	9327	E29
2744	J14	3705	M 6	5137	E18	9738	M 9
2750	K 3	3706	L 5	5150	B20	9803	I28
2751	K 2	3709	L 5	5151	B21	9810	K32
2752	J 1	3710	L 5	5152	B26	9819	K33
2753	I 1	3711	L 6	5170	E22	9903	I16
2754	I 1	3712	J 6	5171	F20	9904	K16
2755	H 2	3713	I 4	5172	E20	9921	O25
2756	H 2	3714	H 6	5172	D28	9960	J24
2757	H 2	3715	I 5	5180	F26	9964	L14
2758	H 4	3716	I 6	5190	G20	9980	N18
2759	J 4	3717	G 8	5194	G25	9994	N14
2800	J27	3718	G 8	5305	B32	9995	N14
2801	K27	3719	H 7	5311	E32		
2802	K27	3720	H 8	5328	F32		
2803	J29	3721	H 9	5329	G32		
2804	L30	3722	H10	5900	H20		
2805	J30	3723	I10	5902	J16		
2806	L31	3724	I13	5903	I16		
2808	K30	3725	G14	5904	K16		
2810	K32	3726	G14	5905	I17		
2811	K32	3727	H13	5910	I19		


M
PIP-MODULE PAL M/N
F.BL MAIN
ONLY SECAM
PIP processing
Bild-in-Bild-Prozessor (PIP)
Processore PIP
Traitement incrustation (PIP)
7125 TDA4650
SECAM REF
IDENT
PAL NTSC
SECAM
2xFq
HUE CONTROL
PAL SECAM NTSC3.5 NTSC4.4
B-Y
R-Y
7366 TDA4660
B-Y 64us
R-Y 64us
RESERVED
7406 SDA9087
CL
VCO
PAL M/N ONLY
1212 7.16MHz
1205 7.151MHz
7212 BC848B
7205 BC848B
7200 BC858B
7350 BC548
7400 BC858B
7402 BC858B
7404 BC858B
TO SPLITTER
SECOND FROND-END ONLY
1600 UV916
1601 OPWK2950
F.REF 4MHz 512
DIV
7610 TDA8349A
SYSTEM
IDENT
AFC
PIP VIDEO
7233 BC858B
7234 BC848B
7630 SAA1300
7755 TDA2579A
TV IDENT
50Hz
15625Hz
SDA
SCL
10P17
10M17
CVBS

Picture in Picture / Módulo PIP



1)

ITEM	PAL M/N 2nd FRONTEND	NTSC WITHOUT 2nd FRONTEND
1212	7.16MHz	-
3104	470	220
3106	-	470
3389	-	1M
4234	-	JUMPER
4235	-	JUMPER
4603	JUMPER	-

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERaTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

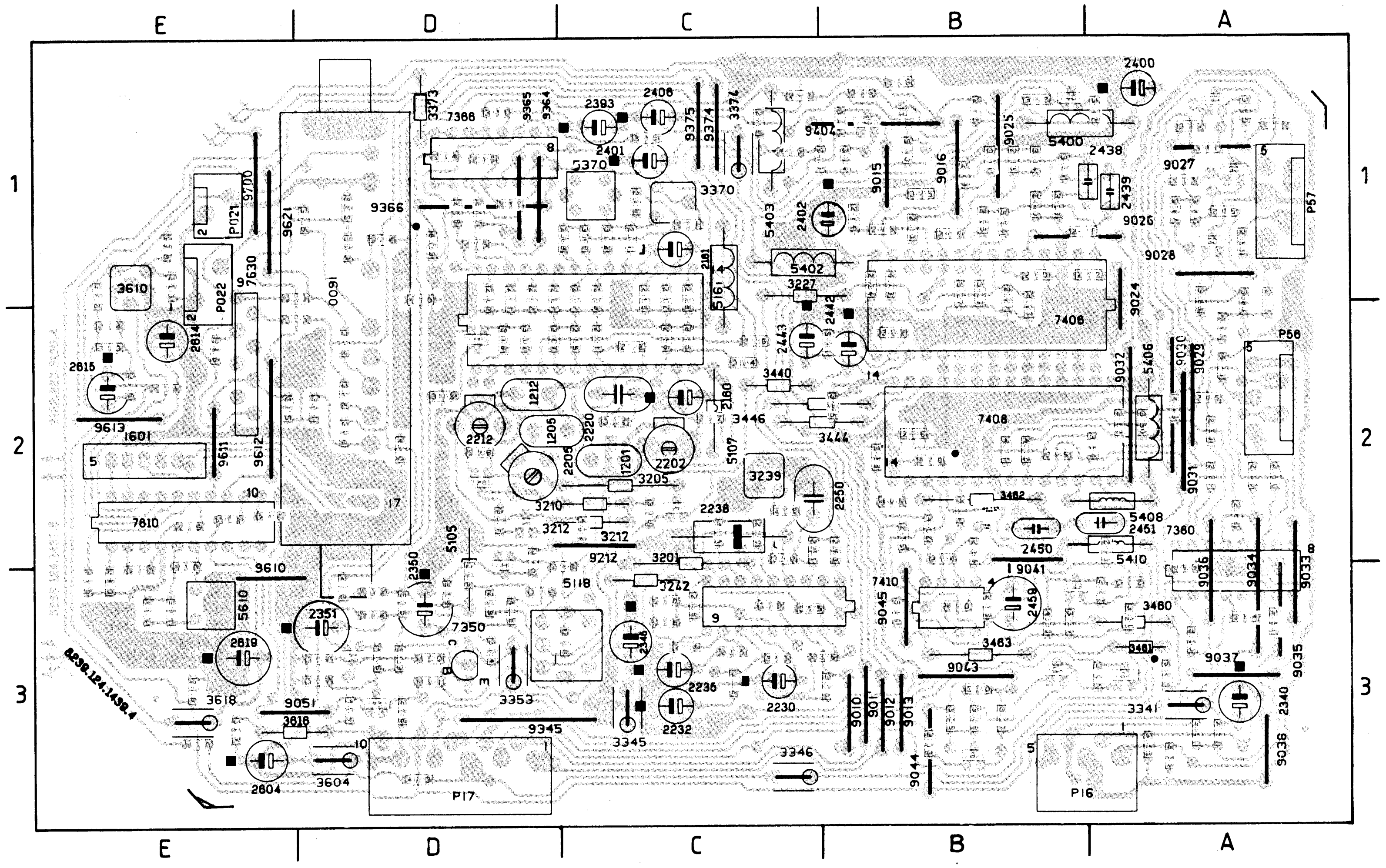
*) COMPONENTS SOLDERED ON COPPERSIDE OF THE PWB/
COMPONENTES SOLDADOS EN LA PARTE INFERIOR DE LA PLACE
1) RESERVED COMPONENT
4) DELETE WHEN SECAM

CHASSIS G8

CL36532142/017.MREF
201093

1201	F 7	3201	H10	4100	D 3
1205	G 8	3205	H 9	4200	K12
1212	G 7	3206	H 9	4201	L12
1600	J 2	3210	H 8	4234	N10
1601	J 5	3211	H 7	4235	D 4
2103	E 2	3212	H 6	4330	I23
2107	D 4	3214	M20	4405	I23
2119	C 4	3221	F 8	4410	N24
2125	B 5	3227	G15	4415	F13
2155	B 6	3228	G15	4451	J22
2160	D 4	3231	J16	4603	A 4
2161	B10	3232	J17	4625	M 9
2162	B10	3233	K11	5105	C 2
2163	B 6	3234	J11	5107	C 4
2171	F10	3235	J18	5161	A10
2172	F 9	3236	L12	5370	A 8
2177	B 9	3237	L11	5400	A17
2180	F10	3238	J19	5402	A17
2181	F 9	3239	J19	5403	F12
2187	F 6	3240	L13	5406	A21
2189	F 6	3241	L12	5408	A21
2196	G 5	3242	K13	5410	N23
2202	F 7	3250	K21	5447	A22
2205	H 8	3265	M15	5610	I 7
2212	H 7	3270	M17	6300	I24
2220	F 8	3275	M19	6301	A26
2221	F 8	3276	M19	6393	E11
2222	F 8	3330	H24	7125	C 5
2227	G15	3331	H24	7200	H10
2230	J16	3332	H23	7205	H 8
2232	J17	3335	B23	7212	H 7
2234	K18	3336	B24	7233	L12
2235	J18	3337	B24	7234	L11
2238	K19	3338	A24	7330	I23
2239	K20	3340	B24	7335	B23
2250	L20	3341	F 2	7337	B24
2251	L21	3345	G 2	7338	A25
2255	L14	3346	B 3	7350	H 4
2260	M16	3353	H 2	7366	B12
2270	M18	3354	H 3	7380	B27
2330	G23	3369	B 8	7400	C15
2340	G 2	3370	A 8	7402	D15
2345	H 2	3371	A 8	7404	F15
2350	I 4	3372	B 7	7406	B17
2351	I 4	3373	E11	7408	C20
2365	B 8	3374	E11	7410	M25
2369	B 8	3389	E13	7610	J 7
2371	B 8	3390	C28	7630	M12
2380	H27	3391	C28	7755	K15
2381	C26	3394	D28	9010	N19
2382	H27	3395	D28	9011	N22
2383	D26	3398	E28	9012	N22
2384	G27	3399	F29	9013	M 5
2385	F26	3401	C14	9015	C15
2387	D11	3404	C15	9016	E15
2388	D11	3405	D15	9025	F15
2390	B28	3406	E14	9026	G20
2393	E12	3410	D15	9031	A22
2394	E11	3411	E15	9032	G21
2396	E12	3412	F15	9033	G29
2400	B18	3413	E14	9038	G 3
2401	C14	3414	F15	9041	N23
2402	B16	3416	F14	9043	C25
2404	D15	3434	D20	9044	B23
2405	C16	3435	D19	9045	K24
2406	E14	3436	E19	9103	A16
2409	E15	3437	D19	9212	C 3
2410	E16	3438	B19	9345	K17
2411	F12	3439	A19	9364	B11
2412	F14	3440	G16	9365	B11
2413	F13	3441	G17	9374	N19
2414	F16	3442	H17	9375	O18
2415	F16	3444	G22	9404	F13
2417	F13	3445	F24	9611	M10
2430	G18	3446	G22	9621	N18
2432	B18	3448	F23		
2434	B16	3450	F25		
2438	A19	3452	F25		
2439	A19	3454	F25		
2440	B19	3460	A26		
2441	B19	3461	A25		
2442	H17	3462	K23		
2443	H17	3463	B25		
2444	G19	3464	K25		
2445	B20	3600	M 3		
2446	B20	3601	N 3		
2447	B22	3602	N 4		
2448	B21	3603	N 5		
2449	N24	3604	N 4		
2450	K24	3605	M 2		
2451	K24	3609	M 6		
2451	J24	3610	M 6		
2455	K23	3611	M 6		
2459	N24	3612	N 8		
2466	N23	3613	N 6		
2467	N25	3614	N 6		
2468	K22	3615	N10		
2604	N 4	3616	N 9		
2614	N 5	3617	N10		
2615	M 8	3618	J 9		
2616	M10	3619	J 8		
2618	J10	3620	J 9		
2619	J10	3621	J 9		
2620	K10	3625	M 8		
2621	J 8	3626	M11		
2624	N 7	3628	K11		
2625	M 9	3630	N13		
3010	B23	3631	N13		
3102	F 4	3632	K 6		
3104	B 3	3633	L 6		
3106	D 4	3634	L 6		
3190	C11	4003	C19		
3194	F 5	4006	K12		
3195	G 6	4011	F25		
3196	G14	4012	D25		
3200	H10	4048	G29		

Picture in Picture


E
D
C
B
A
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2
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7610
9610
5610
2351
2619
3618
9051
3616
2604
3604
P17
P16
7350
3353
9345
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2232
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7408
7406
7380
5408
2451
5410
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9041
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5406
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P57
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2393
2406
2401
3370
9365
9364
9375
9374
3374
9404
9015
9016
9025
5403
2402
5402
3227
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2161
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2250
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2238
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9212
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3242
5118
2202
2201
2205
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2220
1212
1205
1201
5105
2350
7350
3373
9366
9621
9700
P021
P022
7630
3610
2614
2615
9613
1601
9611
9612
3618
8238 124 1439.4

P16	A3	2227	B2	2401	C1	2619	E3	3238	C2	3387	A1	3461	A3	4012	B2	6300	B2	9024	A2
P17	D3	2230	C3	2402	B1	2620	E3	3239	C2	3388	A2	3462	B2	4047	A2	6301	A3	9025	B1
P021	E1	2232	C3	2404	B1	2621	E3	3240	C3	3389	D1	3463	B3	4048	A2	6393	D1	9026	A1
P56	A2	2234	C3	2405	B1	2624	E2	3241	D3	3390	A3	3464	B3	4049	A2	7103	D2	9027	A1
P57	A1	2235	C3	2406	C1	2625	E2	3242	C3	3391	A3	3465	A3	4100	D3	7105	D3	9028	A1
1201	C2	2238	C2	2409	B1	3010	B3	3250	C3	3394	A3	3600	D2	4180	D2	7125	D1	9029	A2
1205	C2	2239	C3	2410	B1	3102	D3	3265	C3	3395	A3	3601	D2	4200	D3	7200	C2	9030	A2
1212	D2	2250	B2	2411	B1	3103	D2	3270	B3	3398	A3	3602	D2	4201	D3	7205	D2	9031	A2
1600	D1	2251	B2	2412	B1	3104	D3	3275	B3	3399	A3	3603	D2	4212	C2	7212	D2	9032	A2
1601	E2	2255	C3	2413	C1	3105	D3	3276	B3	3401	B1	3604	D3	4234	D3	7233	D3	9033	A3
2103	D3	2260	B2	2414	B1	3106	C3	3330	A3	3404	B1	3605	D1	4235	D3	7234	D3	9034	A3
2105	D3	2270	C2	2415	B1	3107	D2	3331	A3	3405	B1	3609	E1	4330	B3	7330	A3	9035	A3
2107	C2	2330	A3	2417	C1	3108	D2	3332	A3	3406	B1	3610	E1	4365	D1	7335	B3	9036	A3
2118	C3	2340	A3	2430	B1	3190	C1	3335	B3	3410	B1	3611	E1	4401	B2	7337	B3	9037	A3
2119	D3	2345	C3	2432	A1	3191	D1	3336	B3	3411	B1	3612	E2	4402	B2	7338	A3	9038	A3
2120	C3	2350	D3	2434	B1	3194	C2	3337	B3	3412	A1	3613	E2	4403	B2	7350	D3	9041	B3
2125	C2	2351	D3	2438	A1	3195	C2	3338	A3	3413	B1	3614	E2	4404	B3	7366	D1	9043	B3
2155	C2	2365	C1	2439	A1	3196	C2	3340	B3	3414	B1	3615	D2	4405	B2	7380	A2	9044	B3
2160	C2	2369	C1	2440	B1	3200	C2	3341	A3	3416	B1	3616	D3	4410	B3	7381	A1	9045	B3
2161	C1	2371	C1	2441	A1	3201	C3	3345	C3	3434	B1	3617	E3	4415	C1	7385	A1	9051	D3
2162	C2	2380	A2	2442	B2	3205	C2	3346	C3	3435	B1	3618	E3	4600	D2	7387	A1	9212	C2
2163	C2	2381	A2	2443	B2	3206	D2	3353	D3	3436	B2	3619	E3	4603	D3	7400	B1	9345	D3
2171	D2	2382	A2	2446	B2	3210	C2	3354	D3	3437	B2	3620	E3	4625	E3	7402	B1	9364	D1
2172	D2	2383	A2	2448	A2	3211	D2	3369	C1	3438	B1	3621	E3	4700	E3	7404	A1	9365	D1
2177	C2	2384	A2	2449	B3	3212	C2	3370	C1	3439	B1	3625	E2	5105	D3	7406	A2	9366	D1
2180	D2	2385	A2	2450	B2	3214	C2	3371	C1	3440	C2	3626	E2	5107	C2	7408	A2	9374	C1
2181	C2	2386	D1	2451	A2	3221	C2	3372	C1	3441	B2	3628	E2	5118	C3	7410	B3	9375	C1
2187	C2	2387	D1	2454	B2	3227	B2	3373	D1	3442	B2	3630	D2	5161	C1	7610	E2	9404	B1
2189	C2	2388	D1	2455	B2	3228	B2	3374	C1	3444	B2	3631	D2	5370	C1	7630	E2	9610	D3
2196	C2	2390	A3	2459	B3	3231	C3	3380	A1	3445	B2	3632	D1	5400	A1	7755	B3	9611	E2
2202	C2	2391	A1	2466	B2	3232	C3	3381	A1	3446	B2	3633	D1	5402	B1	9010	B3	9612	E2
2205	D2	2393	C1	2604	E3	3233	D3	3382	A1	3448	B2	3634	D1	5403	C1	9011	B3	9613	E2
2212	D2	2394	D1	2614	E2	3234	D3	3383	A1	3450	A2	3700	E1	5406	A2	9012	B3	9621	E1
2220	C2	2395	A1	2615	E2	3235	C3	3384	A1	3452	A2	4003	B1	5408	A2	9013	B3	9700	E1
2221	C2	2397	A2	2616	E2	3236	D3	3385	A1	3454	A2	4006	D3	5410	A2	9015	B1		
2222	C2	2400	A1	2618	E3	3237	D3	3386	A2	3460	A3	4011	B2	5610	E3	9016	B1		

Electrical settings on the PIP panel (See Fig. 2)

Before carrying out each setting, it should be ensured that a **P.I.P.** picture with colour bar is visible on the screen and the unit should have reached its operating temperature (after ≈ 20 min.).

1 Horizontal synchronisation

Supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125.
Connect pin 5-IC7755 to earth.
Measure the frequency on pin 17-IC7755 and set this to 15,625 Hz ± 25 Hz with R3239.
Remove the short circuits.

For PIP modules with a separate tuner (1600)

2 Reference coil

Select the PIP-tuner.
Connect a signal generator (e.g. PM5326) as shown in fig 1 and adjustbit for a frequency of 38,9 MHz.
Modulate the signal (AM) for instance with 1 kHz. Unsolder pin 6 of the tuner (1600).
Connect an oscilloscope to pen 13 of IC7610 and adjust 5610 for a maximum (undistorted) signal.
Ensure the demodulator is not overloaded.
Resolder pin 6 of the tuner.

3 AGC

If the picture from a strong local transmitter is distorted, adjust 3160 until the picture is not distorted.

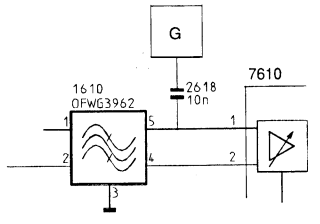
G
1610
OFWG3962
2618
10n
7610
1
2
3
4
5
1
2

Fig. 1

For sets with NTSC reception

4 NTSC M chroma auxiliary oscillator

Connect a pattern generator and supply an NTSC M colour bar pattern.
Connect pin 17-IC7125 to earth.
Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

For sets with PAL M.N reception

5 PAL M chroma 7,151 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL M colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth.
Set 2205 so that the colour of the PIP picture is practically still.
Remove the interconnection.

6 PAL N chroma 7,164 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL N colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth.
Set 2212 so that the colour of the PIP picture is practically still.
Remove the interconnection.

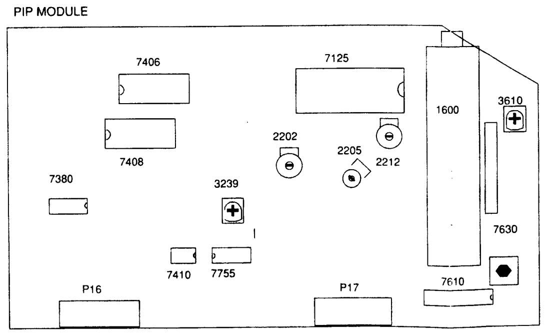
PIP MODULE
7406
7125
1600
3610
7408
2202
2205
2212
7380
3239
7630
7410
7755
P16
P17
7610

Fig. 2

Large signal panel [A]

Various

1301▲	4822 071 51252	FUSE T1.25A
1301▲	4822 071 56301	FUSE T630mA

⊣⊢

2104	4822 121 40487	100n 20% 400V
2112	4822 124 80679	680µF 20% 400V
2112	4822 124 41891	680µF 250V
2112	4822 124 42159	330µF 20% 400V
2120	4822 124 80679	680µF 20% 400V
2120	4822 124 41891	680µF 250V
2120	4822 124 42159	330µF 20% 400V
2130	4822 126 11824	100pF 10% 1KV
2130	4822 122 50116	470pF 10% 1KV
2134	4822 121 51565	4,7nF 1% 250V
2142	4822 124 40242	1µF 20% 63V
2147▲	4822 122 40602	1nF 5% 400V
2150	4822 126 12269	680pF 10%R(HR) 2KV
2150	4822 122 50116	470pF 10% 1KV
2161	4822 124 80783	4700µF 35V
2301	4822 124 22345	CAP. ELECTROLYT.
2303	4822 124 23495	10µF 20% 25V
2311	4822 124 23495	10µF 20% 25V
2321	4822 124 23495	10µF 20% 25V
2805	5322 121 42386	100nF 5% 63V
2904▲	4822 122 33382	9,1nF 5% 2000V
2904▲	4822 121 43076	11nF 5% 1600V
2921	4822 126 12792	2,2nF 10% 500V
2940	4822 126 12792	2,2nF 10% 500V

▭

3131	4822 117 10452	47k 5% 3W
3131	4822 053 12101	100Ω 5% 3W
3134	4822 050 23484	348k 1% 0,6W
3150	4822 050 21004	100k 1% 0,6W
3151	4822 050 21503	15k 1% 0,6W
3153	4822 050 22403	24k 1% 0,6W
3165	4822 116 52283	4k7 5% 0,5W
3302	4822 050 21602	1k6 1% 0,6W
3302	4822 050 21202	1k2 1% 0,6W
3303	4822 050 21201	120Ω 1% 0,6W
3304	4822 116 52233	10k 5% 0,5W
3305	4822 116 52233	10k 5% 0,5W
3306	4822 050 23908	3Ω9 1% 0,6W
3307	4822 053 11478	4Ω7 5% 2W
3308	4822 053 11478	4Ω7 5% 2W
3310	4822 050 21002	1k 1% 0,6W
3311	4822 050 21201	120Ω 1% 0,6W
3312	4822 116 52233	10k 5% 0,5W
3313	4822 116 52233	10k 5% 0,5W
3320	4822 050 23601	360Ω 1% 0,6W
3321	4822 050 21201	120Ω 1% 0,6W
3322	4822 116 52233	10k 5% 0,5W
3323	4822 116 52263	2k7 5% 0,5W
3325	4822 053 11228	2Ω2 5% 2W
3326	4822 053 11228	2Ω2 5% 2W
3328▲	4822 052 11108	1Ω 5% 0,5W
3329▲	4822 052 11108	1Ω 5% 0,5W
3998	4822 116 52271	33k 5% 0,5W
3999▲	4822 116 52269	3k3 5% 0,5W

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5100	4822 157 10294	FILTER CU28D3
5100	4822 157 10297	FILTER 56243R5
5101	4822 157 10297	FILTER 65243R5
5130	4822 148 81347	SOPS G8
5130	4822 148 81359	SOPS G8 /54/85/90/93
5131	4822 157 70808	COIL
5133	4822 157 70808	1µH
5137	4822 157 51216	5,6µH
5150	4822 157 70808	COIL
5171	4822 157 70808	COIL
5172	4822 157 70808	COIL
5190	4822 157 70808	COIL
5305	5322 157 51687	39µH
5328	5322 157 51687	COIL
5329	5322 157 51687	COIL
5905	4822 157 70808	COIL

▶|

6133	4822 130 34382	BZX79-C8V2
6300	4822 130 81175	BYD74G
6905	4822 130 83539	EGP20G
6906	4822 130 83539	EGP20G

▤ ⊗

7130▲	4822 130 63499	STH12N60FI
7302	4822 209 80591	LM317T
7303	4822 130 44196	BC548C
7305	4822 209 80591	LM317T
7310	4822 209 80591	LM317T
7311	4822 130 44196	BC548C
7320	4822 209 80591	LM317T
7321	4822 130 44196	BC548C
7981	4822 130 41019	BC547A

Small signal panel [A],[B],[C],[E],[F]

	4822 466 83028	TOP SHIELD
	4822 466 83027	SCREENING

Various

1334	4822 242 72554	OFWG3254
1334	4822 242 72553	OFWJ3251
1334	4822 242 81634	B39389-G3264-K100
1334	4822 242 81549	OFWG3264K
1369	4822 242 72586	TPS5,5MB-TF20
1460	4822 242 81084	KD8467F-A
1461	4822 242 70304	8,867 238 MHz RW43
1461	4822 242 81132	KD8475F-A

⊣⊢

2249	4822 122 31972	39pF 2% 63V
2250	4822 122 31972	39pF 2% 63V
2251	4822 122 31972	39pF 2% 63V
2253	4822 122 31839	82pF 2% 63V
2332	4822 122 32079	3,3pF 5% 50V
2332	4822 122 31774	56pF 2% 63V
2422	4822 126 10324	33pF 2% 63V
2422	4822 122 31774	56pF 2% 63V
2428	4822 124 40435	10µF 20% 50V
2460	4822 122 32999	2,2N 5%
2461	4822 122 31774	56pF 2% 63V
2467	4822 122 31768	180pF 2% 63V
2467	4822 122 32142	270pF 2% 63V
2468	4822 122 31767	150pF 2% 63V
2468	4822 122 31765	100pF 2% 63V
2489	4822 125 50534	20pF 150V
2577	4822 122 31772	47pF 20% 50V
2577	4822 122 31839	82pF 20% 50V
2578	4822 122 31965	220pF 20% 50V
2578	4822 122 31839	82pF 20% 50V
2579	4822 122 31965	220pF 20% 50V
2579	4822 122 31839	82pF 20% 50V
2580	4822 122 31965	220pF 20% 50V
2580	4822 122 31839	82pF 20% 50V
2666	4822 124 40198	470µF 20% 16V
2671	4822 122 31797	22nF 10% 63V
2673	4822 122 31797	22nF 10% 63V
2682	4822 124 41563	470µF 20% 50V
2684	4822 124 41563	470µF 20% 50V
2685	4822 124 41376	4,7µF 50V
2686	4822 124 41376	4,7µF 50V
2687	4822 124 40198	470µF 20% 16V

▭

3263	4822 051 10102	1k 2% 0,25W
3284	4822 051 10103	10k 2% 0,25W
3284	4822 051 10471	470Ω 2% 0,25W
3285	4822 051 10103	10k 2% 0,25W
3286	4822 051 10152	1k5 2% 0,25W
3287	4822 051 10103	10k 2% 0,25W
3288	4822 051 10102	1k 2% 0,25W
3390	4822 053 11478	4Ω7 5% 2W
3437	4822 111 90368	680k 2% 0,125W
3463	4822 051 10271	270Ω 2% 0,25W
3464	4822 051 10473	47k 2% 0,25W
3465	4822 051 10103	10k 2% 0,25W
3466	4822 051 10471	470Ω 2% 0,25W
3466	4822 051 10391	390Ω 2% 0,25W
3487	4822 051 10103	10k 2% 0,25W
3488	4822 051 10103	10k 2% 0,25W
3489	4822 051 10103	10k 2% 0,25W
3491	4822 051 10473	47k 2% 0,25W
3492	4822 051 10103	10k 2% 0,25W
3512	4822 051 10223	22k 2% 0,25W
3570▲	4822 052 10478	4Ω7 5% 0,33W
3574	4822 051 10181	180Ω 2% 0,25W
3575	4822 051 10181	180Ω 2% 0,25W
3576	4822 051 10181	180Ω 2% 0,25W
3612	4822 051 10822	8k2 2% 0,25W
3613	4822 051 10472	4k7 2% 0,25W
3615	4822 051 51002	1k 2% 0,25W
3620	4822 051 10103	10k 2% 0,25W
3630	4822 116 52176	10Ω 2% 0,25W
3837	4822 051 10471	470Ω 2% 0,25W
3838	4822 116 52175	100Ω

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5248	4822 152 20667	5,6µH
5303	4822 157 60122	4,7µH
5305	4822 157 60122	4,7µH
5307	4822 157 60122	4,7µH
5334	4822 157 70967	COIL
5334	4822 157 53343	COIL

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6220	4822 130 82334	BAS85
6284	4822 130 30621	1N4148
6559	4822 130 80954	LLZ-C5V6
6560	4822 130 80954	LLZ-C5V6
6561	4822 130 80954	LLZ-C5V6

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7222	4822 209 32592	P87C054BBPNB
7222	4822 209 33019	P87C055BBPNB /54 ,/85, /90, /93, /97
7222	4822 209 32953	P83C054-CV6030NB
7285	4822 130 61207	BC848
7461	4822 130 61207	BC848
7462	4822 130 61207	BC848
7474	4822 130 61207	BC848
7475	4822 130 61207	BC848
7624	4822 130 61207	BC848

Side front conn. panel [G1],[G2]

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3313	4822 051 10563	56k 2% 0,25W
3318	4822 051 10563	56k 2% 0,25W

LED panel [E]

▭

3019	4822 116 52244	15k 5% 0,5W

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6010	4822 130 31595	V512P
6011	4822 130 31595	V512P
6014	4822 130 81217	TLSV5100

CRT panel [D]

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3100	4822 116 52271	33k 5% 0,5W
3100	4822 116 52257	22k 5% 0,5W

Side rear conn. panel [G1],[G2]

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3259	4822 116 52244	15k 5% 0,5W
3259	4822 116 52257	22k 5% 0,5W

Interface panel [G1],[G2]

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2420	4822 122 32506	5,6pF 5% 50V
2470	4822 051 10561	560R00 2% 0,25W

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3470	4822 051 10561	560Ω 2% 0,25W
3484	4822 051 10331	330Ω 2% 0,25W
3499	4822 116 52244	15k 5% 0,5W

NICAM stereo panel [I]

Various

1070	4822 242 70714	SFT5.5MA
1080	4822 242 70485	SFT5.74MA

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2021	4822 122 32927	220nF +80-20% 50V
2021	4822 121 51252	470nF 5% 50V
2040	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 122 31746	1000pF 2% 63V
2071	4822 122 32139	12pF 2% 63V
2072	4822 122 31797	22nF 10% 63V
2073	4822 122 31797	22nF 10% 63V
2075	4822 121 43066	1nF 1% 400V
2082	4822 122 31797	22nF 10% 63V
2083	4822 122 31797	22nF 10% 63V
2085	4822 121 51262	910pF 1% 400V
2088	4822 122 31981	33nF +-0,5pF 50V
2100	4822 124 22582	2,2mF 20% 16V
2100	4822 122 33496	100nF 10% 63V
2101	4822 124 22582	2,2µF 20% 16V at PWB location 2123 negative polarity to pin 1 item 7150
2105	4822 121 51252	470nF 5% 50V
2108	4822 121 51319	1µF 10% 63V
2109	4822 121 51319	1µF 10% 63V
2110	4822 122 31961	68pF 2% 63V
2116	4822 124 41757	10µF 20% 16V
2165	4822 124 41569	150µF 20% 16V
2206	4822 122 31746	1000pF 2% 63V
2206	4822 122 32442	10nF 50V
2325	4822 122 31772	47pF 2% 63V
2325	4822 122 31961	68pF 2% 63V
2381	4822 121 51252	470nF 5% 50V

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3010	4822 116 52219	330Ω 5% 0,5W
3011	4822 116 52219	330Ω 5% 0,5W
3050	4822 052 10688	6,8Ω 5% 0,33W
3061	4822 051 10432	4k3 2% 0,25W
3061	4822 116 52279	4k3 5% 0,5W
3071	4822 051 10102	1k 2% 0,25W
3075	4822 051 10152	1k5 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3085	4822 051 10152	1k5 2% 0,25W
3088	4822 051 10829	82Ω 2% 0,25W
3105	4822 100 20166	10k 30%lin 0,1W
3106	4822 051 10682	6k8 2% 0,25W
3107	4822 051 10682	6k8 2% 0,25W
3108	4822 051 10462	5k6 2% 0,25W
3110	4822 051 10103	10k 2% 0,25W
3111	4822 051 10122	12k 2% 0,25W
3112	4822 051 10331	330Ω 2% 0,25W
3113	4822 051 10821	820Ω 2% 0,25W
3114	4822 051 10274	270k 2% 0,25W
3116	4822 051 10462	5k6 2% 0,25W
3117	4822 051 10462	5k6 2% 0,25W
3118	4822 051 10104	100k 2% 0,25W
3152	4822 116 52219	330Ω 5% 0,5W
3153	4822 116 52219	330Ω 5% 0,5W
3205	4822 051 10182	1k8 2% 0,25W
3205	4822 116 52224	470Ω 5% 0,5W
3206	4822 051 10392	3k9 2% 0,25W
3206	4822 051 10182	1k8 2% 0,25W
3280	4822 116 52219	330Ω 5% 0,5W
3280	4822 051 10331	330Ω 2% 0,25W
3366	4822 116 52283	4k7 5% 0,5W
3366	4822 051 10472	4k7 2% 0,25W
3367	4822 116 52283	4k7 5% 0,5W
3367	4822 051 10472	4k7 2% 0,25W

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5075	4822 157 52511	0,83µH
5085	4822 157 52511	0,83µH
5200	4822 157 53575	3.3µH
5200	4822 157 62665	3,3µH
5300	4822 157 53202	COIL
5330	4822 157 53575	3.3µH
5330	4822 157 62665	3,3µH
5340	4822 157 53575	3.3µH
5340	4822 157 62665	3,3µH

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6100	4822 130 42489	BYD33G
6100	4822 130 42489	BYD33G; cathode to pin 1 of S12; anode to pin 5 of S12
6114	4822 130 80954	BZV55-C5V6

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7070	4822 209 73756	U2829B
7110	4822 209 63998	TDA9820
7110	4822 130 61207	BC848
7112	4822 130 42012	BC858
7114	4822 130 61207	BC848

PIP panel [M]

1450	4822 212 31105	PIP PANEL G8 PAL-M/N
1450	4822 212 31112	PIP PANEL G8 PAL/MULTI
	4822 265 30351	5P MALE
	4822 265 40503	5P FEMALE GOLD PLATED
	4822 265 40472	10P FEMALE GOLD PLATED
	4822 265 20464	2P MALE
	4822 265 30389	2P MALE

Various

1201	4822 242 70736	7,159 090 MHz NR-18
1205	4822 242 81132	KD8475F-A
1212	4822 242 81084	KD8467F-A
1600	4822 210 10402	TUNER
1601	4822 242 81626	B39458-M3950-M100

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2020	4822 124 40435	10µF 20% 50V
2103	4822 122 32482	22pF 2% 63V
2103	4822 126 10324	33pF 2% 63V
2105	4822 122 31766	120pF 2% 63V
2107	4822 122 32142	270pF 2% 63V
2118	4822 122 31775	680pF 2% 63V
2119	4822 122 31767	150pF 2% 63V
2119	4822 122 31772	47pF 2% 63V
2120	4822 122 31807	1200pF 2% 63V
2125	4822 126 12683	10nF 20% 1Z0
2155	4822 126 12683	10nF 20% 1Z0
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 40272	33µF 20% 16V
2162	4822 122 33706	22nF 80% 50V
2163	5322 122 31842	330pF 2% 63V
2171	4822 122 31965	220pF 2% 63V
2172	4822 122 33496	100nF 10% 63V
2177	5322 122 31842	330pF 2% 63V
2180	4822 122 31965	220pF 2% 63V
2181	4822 122 31947	100nF 20% 63V
2187	4822 122 33706	22nF 80% 50V
2189	4822 122 33706	22nF 80% 50V
2196	4822 122 31947	100nF 20% 63V
2202	4822 125 50207	2p-33p 250V
2205	4822 125 50207	2p-33p 250V
2212	4822 125 50207	2p-33p 250V
2220	5322 121 42661	330nF 5% 63V
2221	4822 122 31947	100nF 20% 63V
2222	5322 122 31641	47nF 50V
2227	5322 122 31842	330pF 2% 63V
2230	4822 124 40242	1µF 20% 63V
2232	5322 124 41431	22µF 20% 35V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 40753	6,8µF 20% 63V
2238	4822 121 42937	2.7nF 1% 250V
2239	4822 122 31947	100nF 20% 63V
2250	4822 121 41738	270nF 5% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V
2330	4822 122 32808	1,2nF 10% 63V
2340	4822 124 40433	47µF 20% 25V
2345	4822 124 40849	330µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 40849	330µF 20% 16V
2365	4822 122 31768	180pF 2% 63V
2369	4822 122 31825	27pF 2% 63V
2371	4822 122 31825	27pF 2% 63V
2380	4822 122 32927	220nF 20% 50V
2381	4822 122 32927	220nF 20% 50V
2382	4822 122 32927	220nF 20% 50V
2383	4822 122 32927	220nF 20% 50V
2384	4822 122 32927	220nF 20% 50V
2385	4822 122 32927	220nF 20% 50V
2387	4822 122 31746	1000pF 2% 63V
2388	4822 122 31746	1000pF 2% 63V
2390	4822 122 31947	100nF 20% 63V
2393	4822 124 40435	10µF 20% 50V
2401	4822 124 40242	1µF 20% 63V
2404	4822 122 31746	1nF 2% 63V
2405	4822 126 12683	10nF 20% 1Z0
2406	4822 124 40242	1µF 20% 63V
2409	4822 122 31746	1nF 2% 63V
2410	4822 126 12683	10nF 20% 1Z0
2413	4822 122 31765	100pF 2% 63V
2414	4822 126 12683	10nF 20% 1Z0
2415	4822 122 31965	220pF 2% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 2% 63V
2441	4822 122 31727	470pF 2% 63V
2442	4822 124 40242	1µF 20% 63V
2443	4822 124 40242	1µF 20% 63V
2444	4822 122 31072	47pF 20% 100V
2446	4822 122 31947	100nF 20% 63V
2447	5322 122 32334	220pF 10% 100V
2448	4822 122 31947	100nF 20% 63V
2449	4822 122 31947	100nF 20% 63V
2450	4822 121 43898	8,2nF 10% 50V
2455	4822 122 31972	39pF 2% 63V
2459	4822 124 40198	470µF 20% 16V
2466	4822 122 31947	100nF 20% 63V
2468	4822 122 31072	47pF 20% 100V
2604	4822 124 40195	150µF 20% 16V
2614	4822 124 40433	47µF 20% 25V
2615	4822 124 41576	2,2µF 20% 50V
2616	4822 122 31797	22nF 10% 63V
2618	4822 122 32442	10nF 50V
2619	4822 124 40849	330µF 20% 16V
2620	4822 122 32442	10nF 50V
2621	4822 122 32504	15pF 2% 63V
2624	4822 122 31797	22nF 10% 63V

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3010	4822 051 10472	4k7 2% 0,25W
3102	4822 051 10682	6k8 2% 0,25W
3102	4822 051 10008	0Ω 5% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10471	470Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 051 10103	10k 2% 0,25W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3190	4822 051 10103	10k 2% 0,25W
3194	4822 051 10103	10k 2% 0,25W
3195	4822 051 10362	3k6 2% 0,25W
3196	4822 051 10102	1k 2% 0,25W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 116 52269	3k3 5% 0,5W
3205	4822 116 52233	10k 5% 0,5W
3206	4822 051 10103	10k 2% 0,25W
3210	4822 116 52233	10k 5% 0,5W
3211	4822 051 10473	47k 2% 0,25W
3212	4822 116 52233	10k 5% 0,5W
3214	4822 051 10102	1k 2% 0,25W
3221	4822 051 10332	3k3 2% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10362	3k6 2% 0,25W
3238	4822 051 10273	27k 2% 0,25W
3239	4822 100 20166	10k 30% LIN 0,1W
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3331	4822 051 10472	4k7 2% 0,25W
3332	4822 051 10472	4k7 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3346	4822 052 10108	1Ω 5% 0,33W
3353	4822 052 10228	2Ω2 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3369	4822 051 10331	330Ω 2% 0,25W
3370	4822 100 11391	330Ω 30%lin 0,1W
3371	4822 051 10431	430Ω 2% 0,25W
3372	4822 051 10331	330Ω 2% 0,25W
3373	4822 051 11002	1k 1% 0,4W
3385	4822 051 10105	1M 5% 0,25W
3389	4822 051 10105	1M 5% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3401	4822 051 10104	100k 2% 0,25W
3404	4822 051 10101	100Ω 2% 0,25W
3404	4822 051 10151	150Ω 2% 0,25W
3405	4822 051 10161	160Ω 2% 0,25W
3405	4822 051 51201	120Ω 1% 0,125W
3406	4822 051 10104	100k 2% 0,25W
3410	4822 051 10759	75Ω 2% 0,25W
3410	4822 051 10131	130Ω 2% 0,25W
3411	4822 051 10161	160Ω 2% 0,25W
3411	4822 051 51201	120Ω 1% 0,125W
3412	4822 051 10751	750Ω 2% 0,25W
3412	4822 051 10561	560Ω 2% 0,25W
3414	4822 051 10431	430Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52219	330Ω 5% 0,5W
3441	4822 051 10439	43Ω 2% 0,25W
3442	4822 051 10101	100Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3445	4822 051 10224	220k 2% 0,25W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10511	510Ω 2% 0,25W
3450	4822 051 10361	510Ω 2% 0,25W
3452	4822 051 10511	510Ω 2% 0,25W
3452	4822 051 10361	510Ω 2% 0,25W
3454	4822 051 10511	510Ω 2% 0,25W
3454	4822 051 10361	510Ω 2% 0,25W
3460	4822 116 52226	560Ω 5% 0,5W
3461	4822 116 52288	510k 5% 0,5W
3462	4822 116 52271	33k 5% 0,5W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3600	4822 051 10103	10k 2% 0,25W
3601	4822 051 10103	10k 2% 0,25W
3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
3604▲	4822 052 10108	1Ω 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30%lin 0,1W
3611	4822 051 10682	6k8 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
3613	4822 051 10123	12k 2% 0,25W
3614	4822 051 10562	5k6 2% 0,25W
3615	4822 051 10822	8k2 2% 0,25W
3616	4822 116 52289	5k6 5% 0,5W
3617	4822 051 10562	5k6 2% 0,25W
3618	4822 052 10109	10Ω 5% 0,33W
3620	4822 051 20222	2k2 5% 0,1W
3621	4822 051 10331	330Ω 2% 0,25W
3625	4822 051 10225	2M2 5% 0,25W
3626	4822 051 10102	1k 2% 0,25W
3630	4822 051 10101	100Ω 2% 0,25W
3631	4822 051 10101	100Ω 2% 0,25W
3700	4822 051 10564	560k 2% 0,25W
3700	4822 051 10104	100k 2% 0,25W

Jumper

4xxx	4822 051 10008	0Ω 5% 0,25W

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5105	4822 156 20915	33µH
5107	4822 156 20915	33µH
5118	4822 157 60435	10,3µH
5161	4822 157 50961	22µH
5400	4822 157 50943	12µH
5402	4822 157 50943	12µH
5403	4822 157 50964	100µH
5406	4822 157 50943	12µH
5408	4822 157 50943	12µH
5410	4822 157 50943	12µH
5447	4822 157 70823	3,9 µH
5610	4822 157 63758	0,18 µH

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6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80954	LLZ-C5V6
6393	4822 130 80884	LLZ-C5V1

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7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 30837	TDA4650/V4/S1
7200	5322 130 41983	BC858B
7205	5322 130 41982	BC848B
7212	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7330	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 40937	BC548B
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 62474	SDA9088-2WS
7410	4822 209 63644	SDA9086-3
7630	4822 209 30395	SAA1300AQ/N6
7755	4822 209 72363	TDA2579A/N8

Electrical parts lists

TXT panel [J].

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2808	4822 122 31825	27pF 2% 63V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813▲	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 2% 63V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 2% 63V
2817	4822 122 32504	15pF 2% 63V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 2% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 32142	270pF 2% 63V
2822	4822 122 31765	100pF 2% 63V
2823	5322 122 31842	330pF 2% 63V
2824	4822 122 32891	68nF 10% 63V
2825▲	4822 124 41525	100μF 20% 25V
2826	4822 122 32504	15pF 2% 63V
2827	4822 122 32542	47nF 10% 63V
2828	4822 122 32542	47nF 10% 63V
2829▲	4822 124 40433	47μF 20% 25V
2830	4822 122 32542	47nF 10% 63V
2833	4822 124 41576	2,2μF 20% 50V
2845	4822 124 41584	100μF 20% 10V
2846	4822 124 22343	1000μF 16V
2849	4822 124 22343	1000μF 16V

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3795	4822 051 10392	3k9 2% 0,25W
3796	4822 051 51201	120Ω 1% 0,125W
3797	4822 116 52176	10Ω 5% 0,5W
3798	4822 051 51201	120Ω 1% 0,125W
3800▲	4822 051 10103	10k 2% 0,25W
3801	4822 051 10105	1M 5% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3806	4822 051 10272	2k7 2% 0,25W
3807▲	4822 051 10472	4k7 2% 0,25W
3808▲	4822 051 10103	10k 2% 0,25W
3809	4822 051 10512	5k1 2% 0,25W
3810	4822 051 10333	33k 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W
3812	4822 051 10272	2k7 2% 0,25W
3814	4822 116 83863	1k 5% 0,5W
3815	4822 051 10152	1k5 2% 0,25W
3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10122	1k2 2% 0,25W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10272	2k7 2% 0,25W
3825	4822 051 10272	2k7 2% 0,25W
3826▲	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10221	220Ω 2% 0,25W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3843	4822 051 10122	1k2 2% 0,25W
3845▲	4822 052 10689	68Ω 5% 0,33W
3846▲	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3850	4822 051 20222	2k2 5% 0,1W
3852	4822 051 20222	2k2 5% 0,1W
3999	4822 051 10182	1k8 2% 0,25W

Jumper

4901	4822 051 10008	0Ω 5% 0,25W
4904	4822 051 10008	0Ω 5% 0,25W
4905	4822 051 10008	0Ω 5% 0,25W
4906	4822 051 10008	0Ω 5% 0,25W
4908	4822 051 10008	0Ω 5% 0,25W
4910	4822 051 10008	0Ω 5% 0,25W
4913	4822 051 10008	0Ω 5% 0,25W
4914	4822 051 10008	0Ω 5% 0,25W
4915	4822 051 10008	0Ω 5% 0,25W
4917	4822 051 10008	0Ω 5% 0,25W
4918	4822 051 10008	0Ω 5% 0,25W
4921	4822 051 10008	0Ω 5% 0,25W
4922	4822 051 10008	0Ω 5% 0,25W

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5800	4822 156 20966	47μH
5801	4822 157 52849	10μH
5803	4822 157 52825	60μH
5814	4822 157 53608	10μH
5816	4822 157 52224	15μH
5847	4822 157 51157	3.3μH

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6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6812	4822 130 80446	LL4148
6814	4822 130 80446	LL4148
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1

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7800	4822 209 31069	PCF84C81AP/098
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803▲	5322 130 41982	BC848B
7804	4822 130 61207	BC848
7810	4822 209 72681	MSM5165AL-12RS
7811▲	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 30556	SAA5243P/E/M3/H
7830	4822 209 32201	SAA5231/V8
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858